INTENT AND ACTIVITY:

Activity_main.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <Button
        android:id="@+id/button3"
        android:layout_width="224dp"
        android:layout_height="591dp"
        android:onClick="startSecond"
        android:text="ok" />

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="17dp"
        android:text="first Activity"
        tools:layout_editor_absoluteX="157dp"
        tools:layout_editor_absoluteY="152dp" />

</RelativeLayout>
```

Activity_second.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".second">

    <TextView
        android:id="@+id/textView2"
        android:layout_width="395dp"
        android:layout_height="wrap_content"
        android:text="Second Activity"
        tools:layout_editor_absoluteX="8dp"
        tools:layout_editor_absoluteY="324dp" />
</RelativeLayout>
```

MainActivity.java

```java
package com.example.progam1;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
public void startSecond(View v)
{

    startActivity(new Intent(MainActivity.this,second.class));
}
}
```
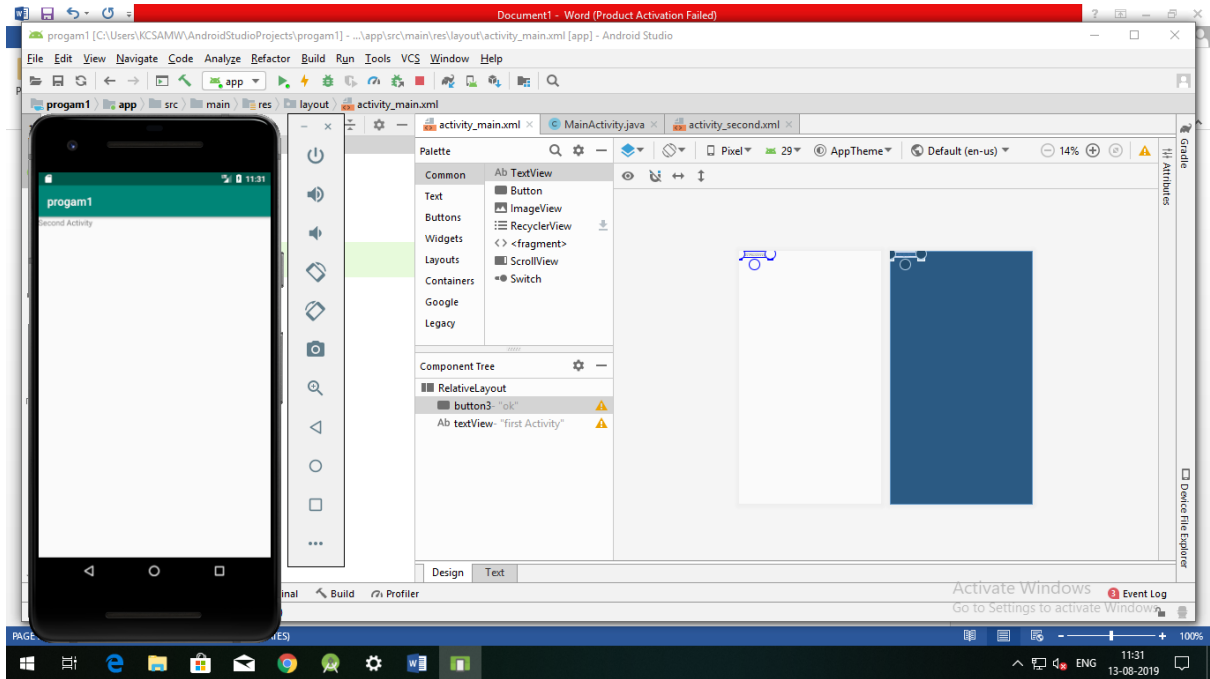
USING CONTROLS:

Activity_Main.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:orientation="vertical"
    >

<TextView
    android:id="@+id/textView1"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="WELCOME"
    android:layout_margin="20sp"
    android:gravity="center"
    android:textSize="20sp"
    android:textStyle="bold" />

    <Button
        android:id="@+id/button1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_margin="20sp"
        android:gravity="center"
        android:text="Change Font Size" />

    <Button
        android:id="@+id/button2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:gravity="center"
        android:layout_margin="20sp"
        android:text="Change Color" />

</LinearLayout>
```

Main_Activity.java

```java
package com.example.program4;

import androidx.appcompat.app.AppCompatActivity;

import android.graphics.Color;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
```

```java
import android.widget.Switch;
import android.widget.TextView;

public class MainActivity extends AppCompatActivity {
    float font = 24;
    int i = 1;


    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        final TextView t1 = (TextView) findViewById(R.id.textView1);
        Button b1 = (Button) findViewById(R.id.button1);
        b1.setOnClickListener(new View.OnClickListener() {

            public void onClick(View view) {
                t1.setTextSize(font);
                font = font + 4;
                if (font == 40)
                    font = 20;
            }
        });
        Button b2 = (Button) findViewById(R.id.button2);
        b2.setOnClickListener(new View.OnClickListener() {

            public void onClick(View view) {
                switch (i) {
                    case 1:
                        t1.setTextColor(Color.parseColor("#0000FF"));
                        break;
                    case 2:
                        t1.setTextColor(Color.parseColor("#00FF00"));
                        break;
                    case 3:
                        t1.setTextColor(Color.parseColor("#FF0000"));
                        break;
                    case 4:
                        t1.setTextColor(Color.parseColor("#800000"));
                        break;

                }
                i++;
                if (i == 5)
                    i = 1;


            }
        });
    }
}
```
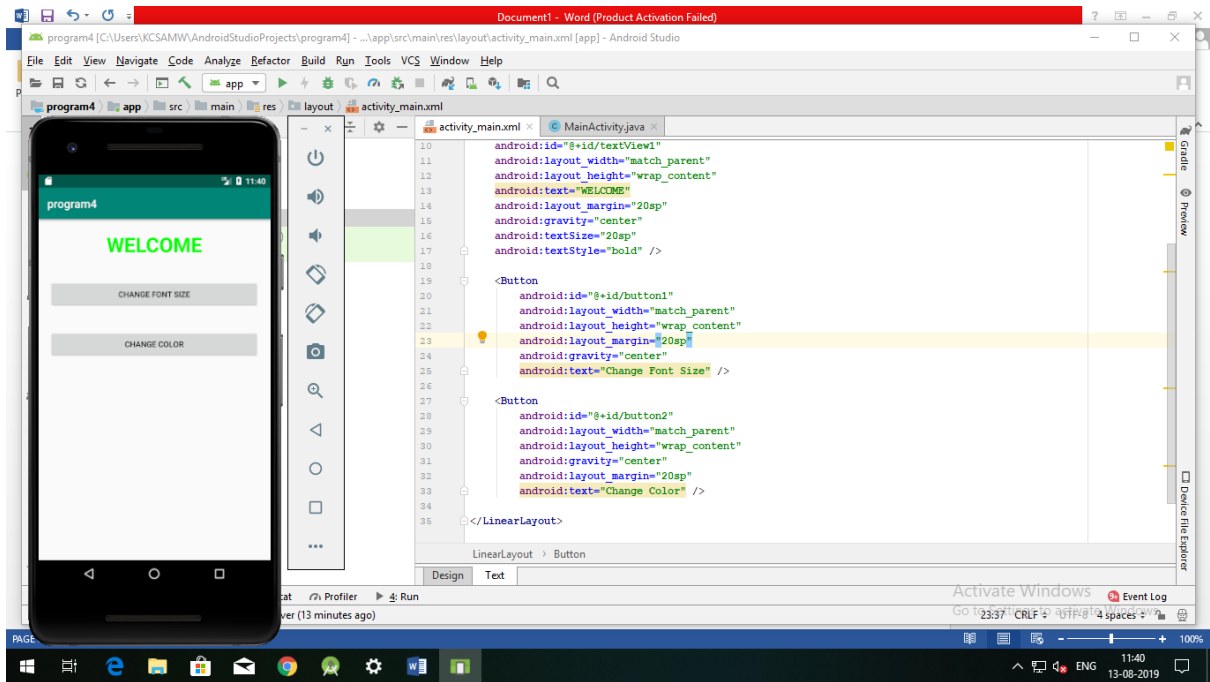
ALERT DIALOGS:

MAIN ACTIVITY.JAVA

```java
package com.example.admin.alert2;

import android.content.DialogInterface;
import android.support.v7.app.AlertDialog;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;


public class MainActivity extends AppCompatActivity {
    TextView txtName,txtBala,txtAcc;
    Button btnName,btnBala,btnAcc;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        txtName=(TextView)findViewById(R.id.txtName);
        txtBala=(TextView)findViewById(R.id.txtBala);
        txtAcc=(TextView)findViewById(R.id.txtAcc);
        btnName=(Button)findViewById(R.id.btnName);
        btnBala=(Button)findViewById(R.id.btnBala);
        btnAcc=(Button)findViewById(R.id.btnAcc);

        btnName.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
            txtName.setText("pranisa");
             }
        });
    btnAcc.setOnClickListener(new View.OnClickListener() {
        public void onClick(View v) {
            txtAcc.setText("SBI 40000");
        }
});

        btnBala.setOnClickListener(new View.OnClickListener(){

        public  void onClick(View v)

        {

            AlertDialog.Builder builder=new AlertDialog.Builder(MainActivity.this);
```

```java
        builder.setMessage("ARE YOU SURE").setPositiveButton("OK",new
DialogInterface.OnClickListener() {

            @Override

            public void onClick(DialogInterface dialog, int which) {
                txtBala.setText("5000");

            }

        })

        .setNegativeButton("CANCEL",null);
        AlertDialog alert=builder.create();
        alert.show();



        }

    });

    }

}
```

ACTIVITY MAIN.XML

```xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/activity_main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    tools:context="com.example.admin.alert2.MainActivity">

    <TextView
        android:text="NAME"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentTop="true"
        android:layout_marginTop="51dp"
        android:id="@+id/txtName"
        android:layout_alignLeft="@+id/txtBala"
        android:layout_alignStart="@+id/txtBala" />
```

```xml
<TextView
    android:text="BALANCE"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
android:layout_below="@+id/txtName"
    android:layout_alignParentLeft="true"
    android:layout_alignParentStart="true"
    android:layout_marginLeft="16dp"
    android:layout_marginStart="16dp"
    android:layout_marginTop="56dp"
    android:id="@+id/txtBala" />

<TextView
    android:text="ACCOUNT"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@+id/txtBala"
    android:layout_alignLeft="@+id/txtBala"
    android:layout_alignStart="@+id/txtBala"
    android:layout_marginTop="57dp"
    android:id="@+id/txtAcc" />

<Button
    android:text="ok"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignTop="@+id/txtAcc"
    android:layout_alignLeft="@+id/btnBala"
    android:layout_alignStart="@+id/btnBala"
    android:id="@+id/btnAcc" />

<Button
    android:text="ok"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/btnBala"
    android:layout_alignTop="@+id/txtBala"
    android:layout_alignLeft="@+id/btnName"
    android:layout_alignStart="@+id/btnName" />

<Button
    android:text="ok"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/btnName"
    android:layout_marginRight="76dp"
    android:layout_marginEnd="76dp"
    android:layout_alignBaseline="@+id/txtName"
    android:layout_alignBottom="@+id/txtName"
```
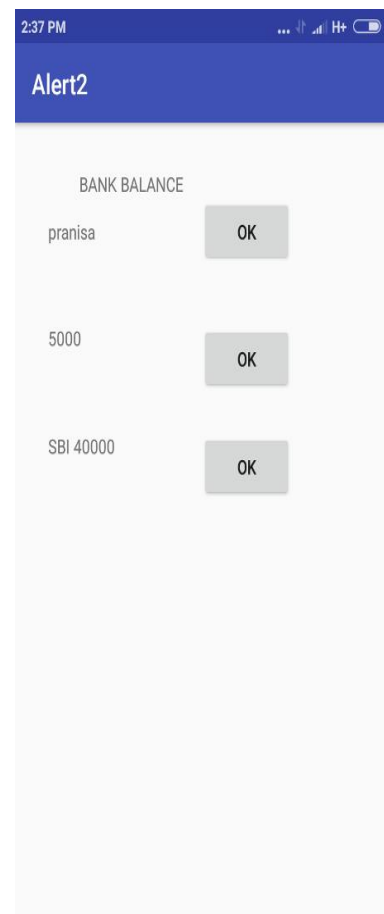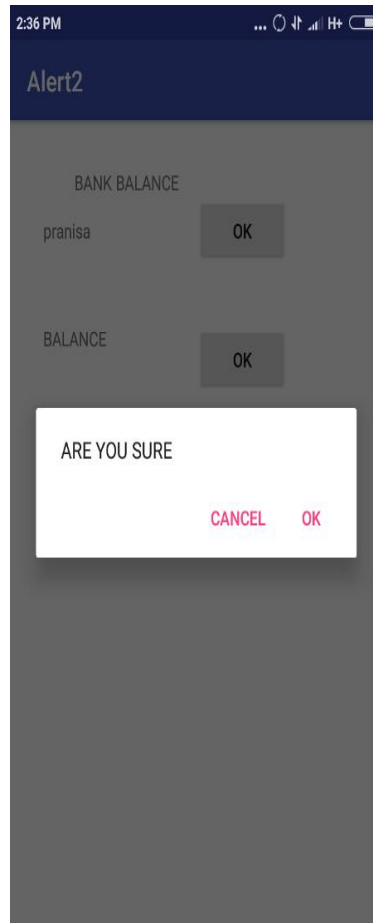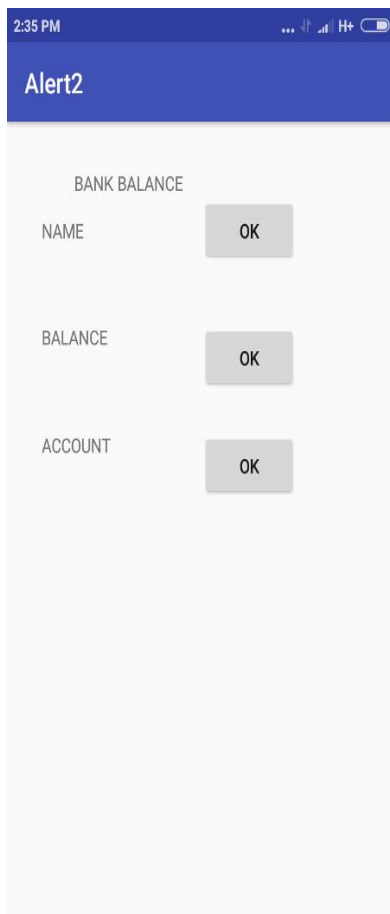
```xml
        android:layout_alignParentRight="true"
        android:layout_alignParentEnd="true" />

    <TextView
        android:text="BANK BALANCE"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_above="@+id/btnName"
        android:layout_toLeftOf="@+id/btnName"
        android:layout_toStartOf="@+id/btnName"
        android:layout_marginRight="17dp"
        android:layout_marginEnd="17dp"
        android:id="@+id/TextView" />

</RelativeLayout/>
```

OUTPUT:

Screen 1 (2:35 PM) - Alert2
BANK BALANCE
NAME — OK
BALANCE — OK
ACCOUNT — OK

Screen 2 (2:36 PM) - Alert2
BANK BALANCE
pranisa — OK
BALANCE — OK
ARE YOU SURE
CANCEL   OK

Screen 3 (2:37 PM) - Alert2
BANK BALANCE
pranisa — OK
5000 — OK
SBI 40000 — OK

LIST VIEW:

Activity_Main.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <ListView
        android:id="@+id/theListView"
        android:layout_width="288dp"
        android:layout_height="wrap_content">

    </ListView>


</LinearLayout>
```

MAIN_ACTIVITY.JAVA

```java
package com.example.program2;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.widget.Adapter;
import android.widget.ArrayAdapter;
import android.widget.ListAdapter;
import android.widget.ListView;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        String[] ninjalist = {"apple", "Orange", "Mango", "grapes"};
        ListAdapter theAdapter = new ArrayAdapter<String>(this,
android.R.layout.simple_list_item_1, ninjalist);
        ListView theListView = (ListView) findViewById(R.id.theListView);

        theListView.setAdapter(theAdapter);

    }
}
```

OUTPUT:


```
</ListView>

/LinearLayout>

MAIN_ACTIVITY.JAVA

ackage com.example.program2;

mport androidx.appcompat.app.AppCompatActivity;

mport android.os.Bundle;
mport android.widget.Adapter;
mport android.widget.ArrayAdapter;
mport android.widget.ListAdapter;
mport android.widget.ListView;

ublic class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        String[] ninjalist = {"apple", "Orange", "Mango", "grapes"};
        ListAdapter theAdapter = new ArrayAdapter<String>(this,
ndroid.R.layout.simple_list_item_1, ninjalist);
        ListView theListView = (ListView) findViewById(R.id.theListView);

        theListView.setAdapter(theAdapter);

    }
```

OUTPUT

OPTIONS MENU:

Menu.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android">
<item android:id="@+id/user" android:title="user"></item>
    <item android:id="@+id/setting" android:title="setting"></item>
    <item android:id="@+id/login" android:title="login"></item>
    <item android:id="@+id/logout" android:title="logout"></item>
</menu>
```

Main_Activity.java

```java
package com.example.program3;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.Menu;
import android.view.MenuItem;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity
{

    @Override
    protected void onCreate(Bundle savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }

    public boolean onCreateOptionsMenu(Menu menu)
    {
        getMenuInflater().inflate(R.menu.menu, menu);
        return super.onCreateOptionsMenu(menu);

    }

    public boolean onOptionsItemSelected(MenuItem item)
    {
        if (item.getItemId() == R.id.user)
        {
            Toast.makeText(this, "User Activity", Toast.LENGTH_SHORT).show();
        }
        if (item.getItemId() == R.id.setting)
        {
            Toast.makeText(this, "Setting Activity", Toast.LENGTH_SHORT).show();
        }
        if (item.getItemId() == R.id.login)
```

```java
    {
        Toast.makeText(this, "Login Activity", Toast.LENGTH_SHORT).show();
    }
    if (item.getItemId() == R.id.logout)
    {
        Toast.makeText(this, "Logout Activity", Toast.LENGTH_SHORT).show();
    }
    return  super.onOptionsItemSelected(item);
    }
}
```

OUTPUT:
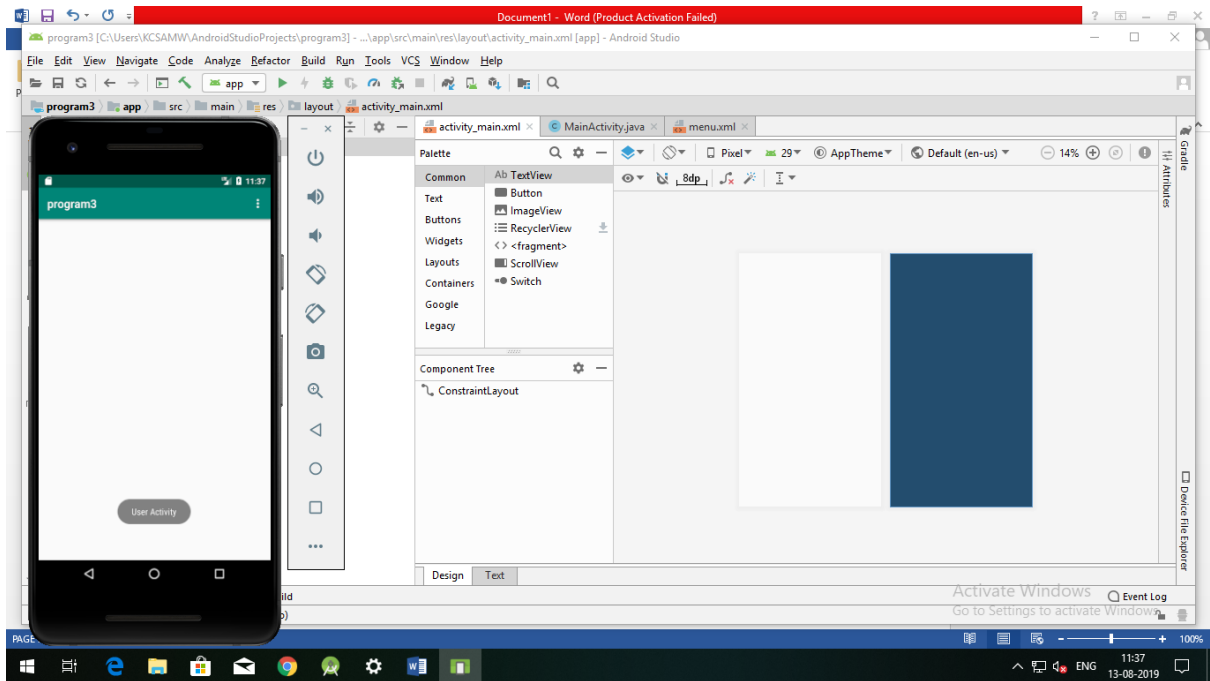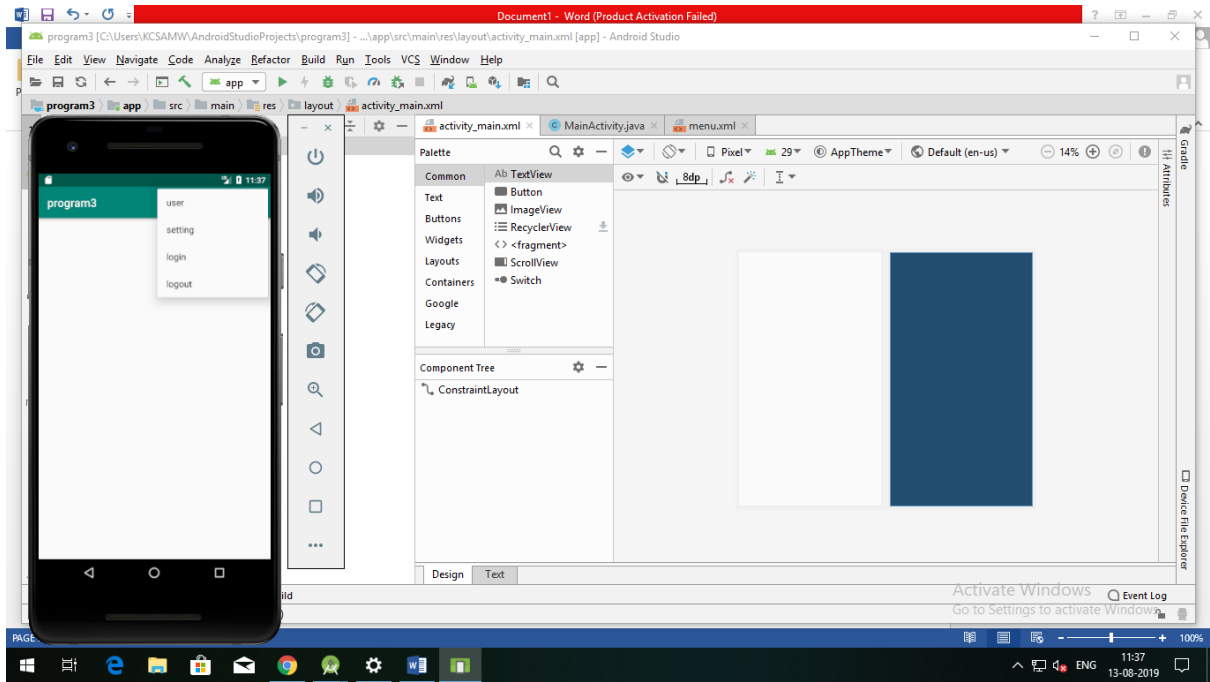
SEEK BARS:

MAIN ACTIVITY.JAVA

```java
package com.example.program6;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.widget.ProgressBar;
import android.widget.SeekBar;
import android.widget.TextView;

public class MainActivity extends AppCompatActivity {
  private TextView textView;
  private ProgressBar progressBar;
  private SeekBar seekBar;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        textView = (TextView) findViewById(R.id.textView);
        progressBar = (ProgressBar) findViewById(R.id.progressBar);
        seekBar = (SeekBar) findViewById(R.id.seekBar);

        seekBar.setOnSeekBarChangeListener(new
SeekBar.OnSeekBarChangeListener() {
            @Override
            public void onProgressChanged(SeekBar seekBar, int progress, boolean
fromuser) {
                progressBar.setProgress(progress);
                textView.setText(""+progress+"%");
            }

            @Override
            public void onStartTrackingTouch(SeekBar seekBar) {

            }

            @Override
            public void onStopTrackingTouch(SeekBar seekBar) {

            }
        });

    }

}
```

ACTIVITY MAIN.XML

```xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:padding="16dp"
    tools:context=".MainActivity">


    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentTop="true"
        android:layout_marginTop="125dp"
        android:text="0%"
        android:textSize="100sp" />

    <ProgressBar
        android:id="@+id/progressBar"
        style="?android:attr/progressBarStyleHorizontal"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_alignParentTop="true"
        android:layout_alignParentEnd="true"
        android:layout_marginTop="293dp"
        android:layout_marginEnd="55dp"
        android:Gravity="center" />

    <SeekBar
        android:id="@+id/seekBar"
        android:layout_width="395dp"
        android:layout_height="703dp" />
</RelativeLayout>
```

OUTPUT:
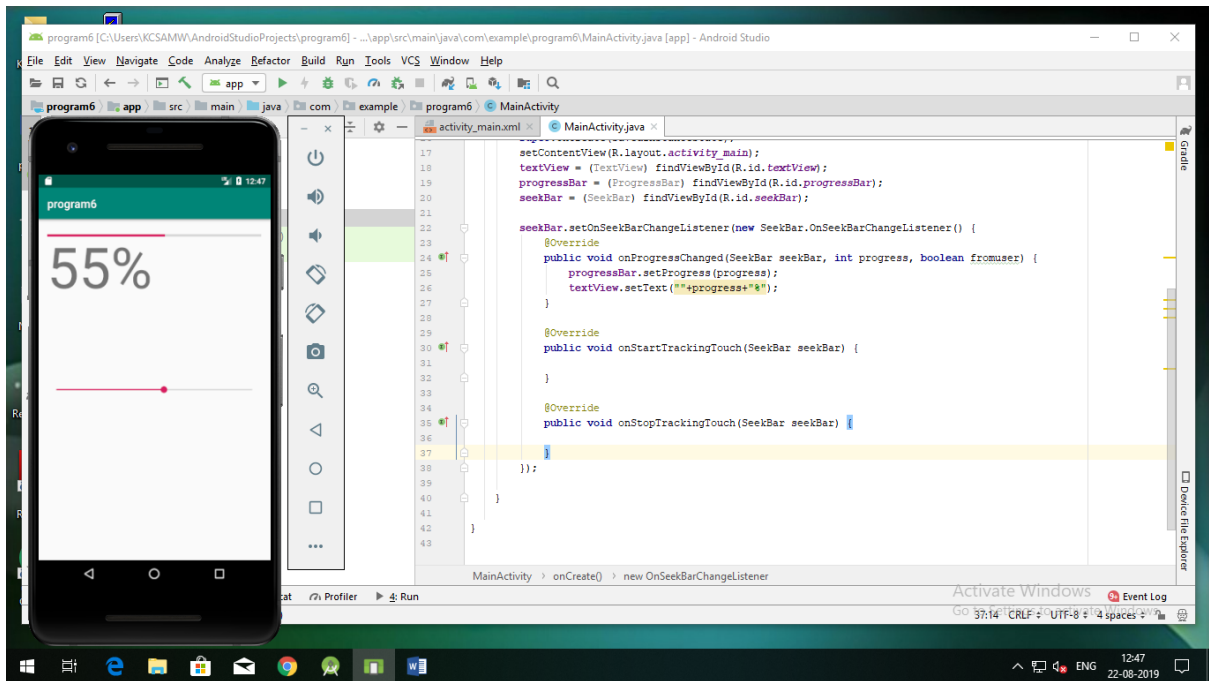
SHARED PREFERENCES:

MAIN ACTIVITY.JAVA

```java
package com.example.program8;

import androidx.appcompat.app.AppCompatActivity;

import android.content.SharedPreferences;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Switch;
import android.widget.TextView;
import android.widget.Toast;

import org.w3c.dom.Text;

public class MainActivity extends AppCompatActivity {
    private TextView textView;
    private EditText editText;
    private Button applyTextButton;
    private Button saveButton;
    private Switch switch1;
    public static final String SHARED_PREFS="sharedprefs";
    public static final String TEXT="text";
    public static final String SWITCH1="switch1";

    private String text;
    private Boolean switchOnOff;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        textView = (TextView) findViewById(R.id.textview);
        editText =(EditText) findViewById(R.id.edittext);
        applyTextButton =(Button) findViewById(R.id.apply_text_button);
        saveButton=(Button)findViewById(R.id.save_button);
        switch1 =(Switch)findViewById(R.id.switch1);

        applyTextButton.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                textView.setText(editText.getText().toString());
```

```java
        }
    });
    saveButton.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            saveData();
        }
    });
    loadData();
    updateViews();

}
public void saveData(){
    SharedPreferences sharedPreferences
=getSharedPreferences(SHARED_PREFS,MODE_PRIVATE);
    SharedPreferences.Editor editor= sharedPreferences.edit();
    editor.putString(TEXT,textView.getText().toString());
    editor.putBoolean(SWITCH1, switch1.isChecked());
    editor.apply();
    Toast.makeText(this,"Data Saved",Toast.LENGTH_SHORT).show();
}
public void  loadData(){
    SharedPreferences
sharedPreferences=getSharedPreferences(SHARED_PREFS,MODE_PRIVATE);
    text=sharedPreferences.getString(TEXT,"");
    switchOnOff = sharedPreferences.getBoolean(SWITCH1,false);

}
public  void updateViews() {
    textView.setText(text);
    switch1.setChecked(switchOnOff);
}
}
```

ACTIVITY MAIN.XML

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity"
    android:orientation="vertical">

    <TextView
        android:id="@+id/textview"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
```

```xml
        android:text="here will be our text"
        android:textSize="30sp"
        android:gravity="center_horizontal"/>
    <EditText
        android:id="@+id/edittext"
        android:layout_width="match_parent"
        android:layout_height="wrap_content" />

     <Button
        android:id="@+id/apply_text_button"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="apply text"
        android:layout_gravity="center_horizontal"/>

    <Switch
        android:id="@+id/switch1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_gravity="center_horizontal" />
    <Button
        android:id="@+id/save_button"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="save data"
        android:layout_gravity="center_horizontal"/>
</LinearLayout>
```
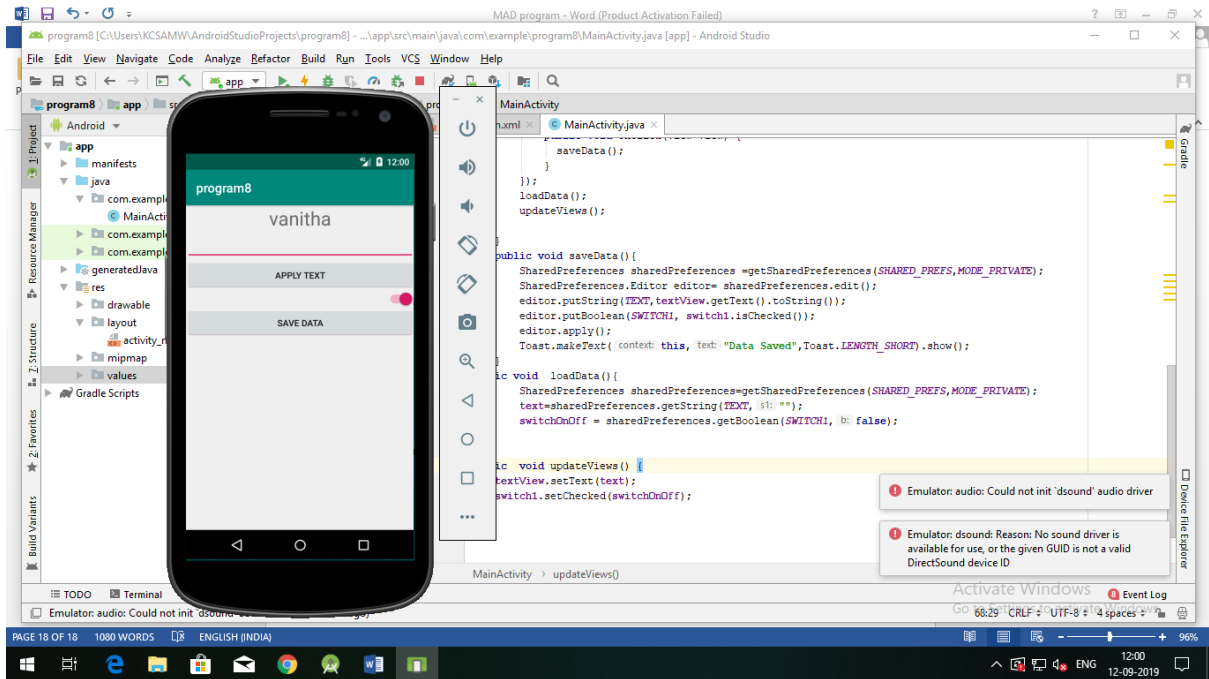
STATUS BAR NOTIFICATIONS:

MAIN ACTIVITY.JAVA

```java
package com.example.program7;

import androidx.appcompat.app.AppCompatActivity;

import android.app.ActionBar;
import android.app.Activity;
import android.app.Notification;
import android.app.NotificationManager;
import android.app.PendingIntent;
import android.content.Context;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;

import static android.content.Context.NOTIFICATION_SERVICE;


public class MainActivity extends AppCompatActivity
{
    Button btn;
     @Override
     protected void onCreate(Bundle savedInstanceState)
     {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        btn = (Button) findViewById(R.id.button);
        btn.setOnClickListener(
            new View.OnClickListener() {
                @Override
                public void onClick(View v) {
                    Intent intent = new Intent();
                    PendingIntent pIntent = PendingIntent.getActivity(MainActivity.this, 0,
intent, 0);

                    Notification noti = new Notification.Builder(MainActivity.this)
                        .setTicker("TickerTile")
                        .setContentTitle("Content Title")
                        .setContentText(" Your have 4 mail,friend request from facebook")
                        .setSmallIcon(R.drawable.ic_launcher_background)
                        .setContentIntent(pIntent).getNotification();
```

```java
            noti.flags = Notification.FLAG_AUTO_CANCEL;
            NotificationManager nm = (NotificationManager)
getSystemService(NOTIFICATION_SERVICE);
            nm.notify(0, noti);
        }
    });
    }
}
```

ACTIVITY MAIN.XML

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <Button
        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="79dp"
        android:layout_weight="1"
        android:text="Button" />


</LinearLayout>
```
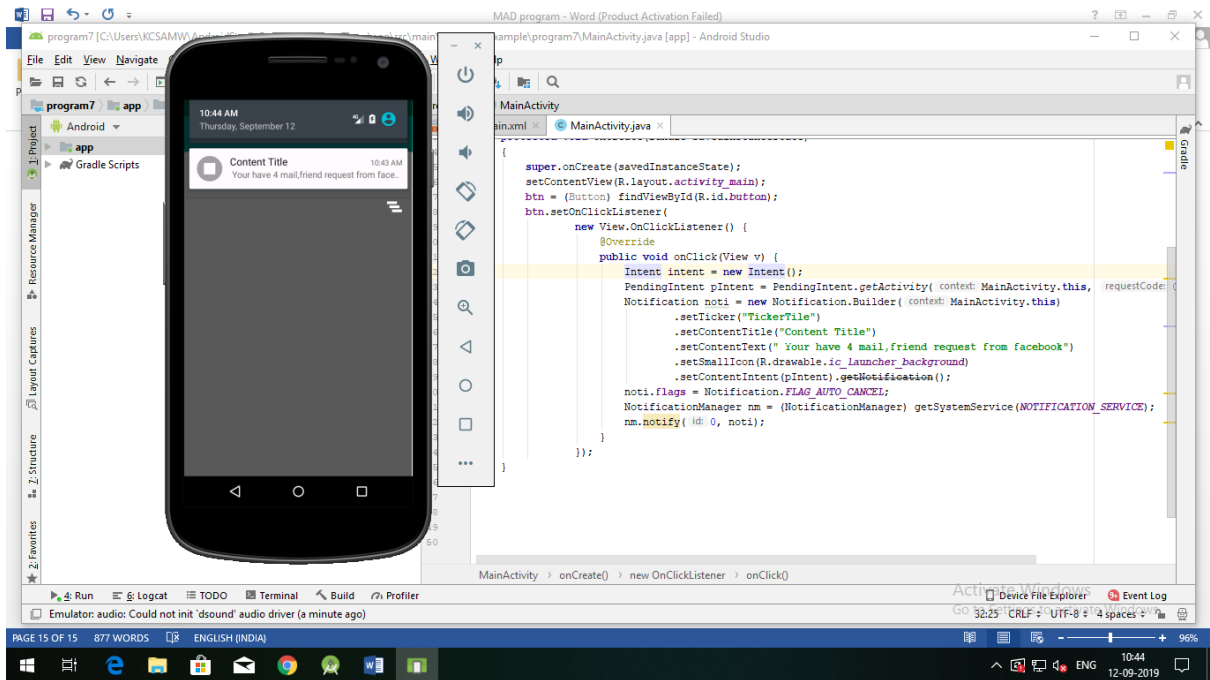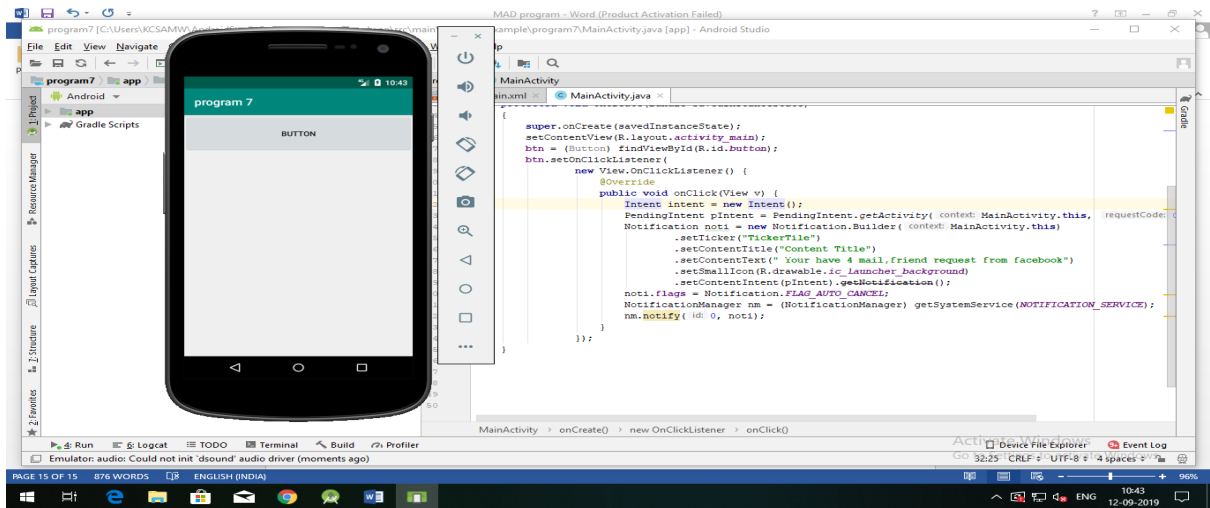
GRID VIEW:

MAIN ACTIVITY.JAVA

```java
package com.example.program9;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
import android.widget.GridView;
import android.widget.TextView;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {

    GridView gridView;

    static final String[] alphabets = new String[]
        {
            "A","B","C","D","E",
            "F","G","H","I","J",
            "K","L","M","N","O",
            "P","Q","R","S","T",
            "U","V","W","X,","Y","Z"
        };

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        gridView =(GridView)findViewById(R.id.gridview);

        ArrayAdapter<String> adapter=new ArrayAdapter<String >(this,
            android.R.layout.simple_list_item_1,alphabets);
        gridView.setAdapter(adapter);

        gridView.setOnItemClickListener(new AdapterView.OnItemClickListener() {
            @Override
            public void onItemClick(AdapterView<?> parent, View v, int i, long l) {

                Toast.makeText(getApplicationContext(),((TextView)
v).getText(),Toast.LENGTH_SHORT).show();
```

```
        }
    });

    }


}
```

ACTIVITY MAIN.XML

```xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">
    <GridView
        android:id="@+id/gridview"
        android:numColumns="4"
        android:gravity="center"
        android:columnWidth="100dp"
        android:layout_width="match_parent"
        android:layout_height="wrap_content">

    </GridView>


</RelativeLayout>
```

OUTPUT:
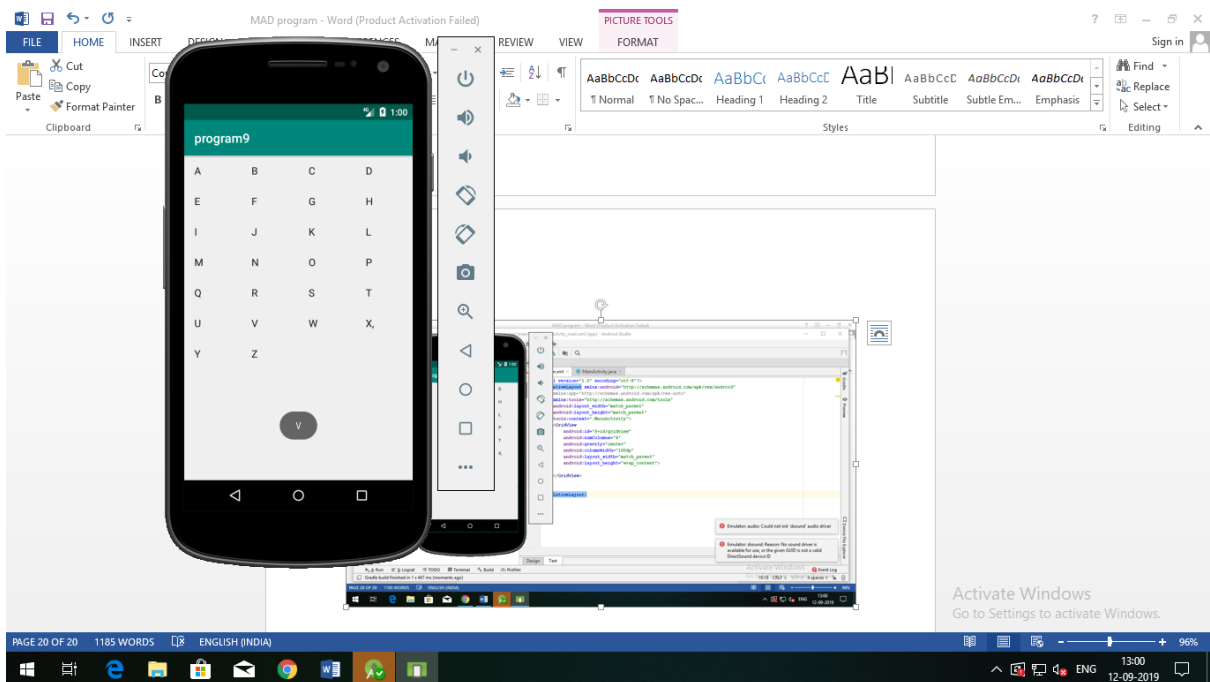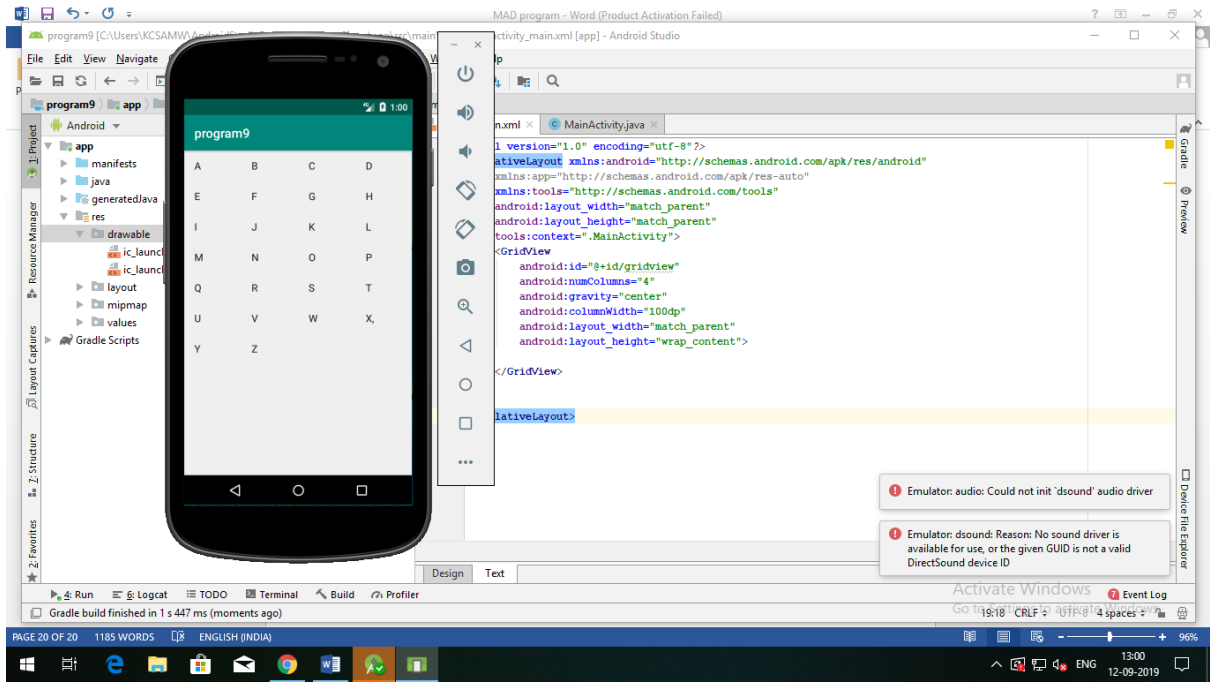
INTERNAL STORAGE - FILES:

MAIN ACTIVITY.JAVA

```java
public class MainActivity extends AppCompatActivity {
private static final String FILENAME ="example.txt";
  EditText mEditText;
   @Override
   protected void onCreate(Bundle savedInstanceState) {
      super.onCreate(savedInstanceState);
      setContentView(R.layout.activity_main);
       mEditText =findViewById(R.id.edit_text);
   }
   public  void  save(View v) {
      String text = mEditText.getText().toString();
      FileOutputStream fos = null;
      try {
         fos = openFileOutput(FILENAME, MODE_PRIVATE);
         fos.write(text.getBytes());
         mEditText.getText().clear();
         Toast.makeText(this, "Saved to" + getFilesDir() + "/" + FILENAME,
Toast.LENGTH_LONG).show();
      } catch (FileNotFoundException e) {
         e.printStackTrace();
      } catch (IOException e) {
         e.printStackTrace();
      } finally {

         if (fos != null) {
            try {
               fos.close();
            } catch (IOException e) {
               e.printStackTrace();
            }
         }
      }
   }
  public void load(View v){
        FileInputStream fis =null;
        try{
           fis=openFileInput(FILENAME);
           InputStreamReader isr = new InputStreamReader(fis);
           BufferedReader br = new BufferedReader(isr);
           StringBuilder sb = new StringBuilder();
           String text;
```

```java
            while ((text = br.readLine())!=null){
                sb.append(text).append("/n");

            }
            mEditText.setText(sb.toString());
            }catch (FileNotFoundException e){
            e.printStackTrace();

            }catch (IOException e){
            e.printStackTrace();
        }finally {
            if(fis!=null){
                try{
                    fis.close();
                }catch (IOException e){
                    e.printStackTrace();
                }
            }
        }
    }

    }
}
```

ACTIVITY MAIN.XML

```xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <EditText
        android:id="@+id/edit_text"
        android:layout_width="match_parent"
        android:layout_height="200dp"
        />
    <Button
        android:id="@+id/button_save"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@+id/edit_text"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="16dp"
        android:text="save"
        android:onClick="save"/>
    <Button
        android:id="@+id/button_load"
```

```xml
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignStart="@+id/button_save"
        android:layout_below="@+id/button_save"
        android:layout_marginTop="17dp"
        android:text="load"
        android:onClick="load"/>


</RelativeLayout>
```

OUTPUT: