

//Slip -database program

```
<?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">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"

        android:textAppearance="?android:attr/textAppearanceLarge"
        android:text="Name"
        android:id="@+id/textView"
        android:layout_alignParentTop="true"
        android:layout_alignParentLeft="true"
        android:layout_alignParentStart="true" />

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"

        android:textAppearance="?android:attr/textAppearanceLarge"
        android:text="Surname"
        android:id="@+id/textView2"
        android:layout_below="@+id/editText_name"
        android:layout_alignParentLeft="true"
        android:layout_alignParentStart="true" />

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"

        android:textAppearance="?android:attr/textAppearanceLarge"
        android:text="Marks"
        android:id="@+id/textView3"
        android:layout_below="@+id/editText_surname"
        android:layout_alignParentLeft="true"
        android:layout_alignParentStart="true" />

    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
```

```

        android:id="@+id/editText_name"
        android:layout_alignTop="@+id/textView"
        android:layout_toRightOf="@+id/textView"
        android:layout_toEndOf="@+id/textView" />

<EditText
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/editText_surname"
    android:layout_alignTop="@+id/textView2"
    android:layout_toRightOf="@+id/textView2"
    android:layout_toEndOf="@+id/textView2" />

<EditText
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/editText_Marks"
    android:layout_below="@+id/editText_surname"
    android:layout_toRightOf="@+id/textView3"
    android:layout_toEndOf="@+id/textView3" />

<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Add Data"
    android:id="@+id/button_add"
    android:layout_below="@+id/editText_Marks"
    android:layout_alignParentLeft="true"
    android:layout_alignParentStart="true"
    android:layout_marginTop="76dp" />

<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="View All"
    android:id="@+id/button_viewAll"
    android:layout_above="@+id/button_update"
    android:layout_centerHorizontal="true" />

<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Update"
    android:id="@+id/button_update"
    android:layout_below="@+id/button_add"
    android:layout_alignParentLeft="true"
    android:layout_alignParentStart="true" />

```

```

<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Delete"
    android:id="@+id/button_delete"
    android:layout_centerVertical="true"
    android:layout_below="@+id/button_viewAll"
    android:layout_alignLeft="@+id/button_viewAll"
    android:layout_alignStart="@+id/button_viewAll" />

<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"

    android:textAppearance="?android:attr/textAppearanceLarge"
    android:text="id"
    android:id="@+id/textView_id"
    android:layout_below="@+id/editText_Marks"
    android:layout_alignParentLeft="true"
    android:layout_alignParentStart="true" />

<EditText
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/editText_id"
    android:layout_alignTop="@+id/textView_id"
    android:layout_toRightOf="@+id/textView3"
    android:layout_toEndOf="@+id/textView3" />

</RelativeLayout>

```

///DatabaseHelper.java

```

package com.example.sqlite26;

import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;

```

```

import android.content.ContentValues;
import android.content.Context;
import android.database.Cursor;

public class DatabaseHelper extends SQLiteOpenHelper {
    public static final String DATABASE_NAME = "Student.db";
    public static final String TABLE_NAME = "student_table";
    public static final String COL_1 = "ID";
    public static final String COL_2 = "NAME";
    public static final String COL_3 = "SURNAME";
    public static final String COL_4 = "MARKS";

    public DatabaseHelper(Context context)
    {
        super(context, DATABASE_NAME, null, 1);
    }

    @Override
    public void onCreate(SQLiteDatabase db) {
        db.execSQL("create table " + TABLE_NAME + " (ID INTEGER
PRIMARY KEY AUTOINCREMENT,NAME TEXT,SURNAME TEXT,MARKS
INTEGER)");
    }

    @Override
    public void onUpgrade(SQLiteDatabase db, int oldVersion, int
newVersion) {
        db.execSQL("DROP TABLE IF EXISTS "+TABLE_NAME);
        onCreate(db);
    }

    public boolean insertData(String name,String surname,String
marks) {
        SQLiteDatabase db = this.getWritableDatabase();
        ContentValues contentValues = new ContentValues();
        contentValues.put(COL_2,name);
        contentValues.put(COL_3,surname);
        contentValues.put(COL_4,marks);
        long result = db.insert(TABLE_NAME,null ,contentValues);
        if(result == -1)
            return false;
        else
            return true;
    }
}

```

```

    public Cursor getAllData() {
        SQLiteDatabase db = this.getWritableDatabase();
        Cursor res = db.rawQuery("select * from
"+TABLE_NAME,null);
        return res;
    }

    public boolean updateData(String id,String name,String
surname,String marks) {
        SQLiteDatabase db = this.getWritableDatabase();
        ContentValues contentValues = new ContentValues();
        contentValues.put(COL_1,id);
        contentValues.put(COL_2,name);
        contentValues.put(COL_3,surname);
        contentValues.put(COL_4,marks);
        db.update(TABLE_NAME, contentValues, "ID = ?",new
String[] { id });
        return true;
    }

    public Integer deleteData (String id) {
        SQLiteDatabase db = this.getWritableDatabase();
        return db.delete(TABLE_NAME, "ID = ?",new String[]
{id});
    }
}

```

//////MainActivity.java

```

package com.example.sqlite26;

import androidx.appcompat.app.AppCompatActivity;
import android.app.AlertDialog;
import android.database.Cursor;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuItem;
import android.view.View;
import android.widget.Button;

```

```

import android.widget.EditText;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

    DatabaseHelper myDb;
    EditText editName, editSurname, editMarks , editTextId;
    Button btnAddData;
    Button btnviewAll;
    Button btnDelete;

    Button btnviewUpdate;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        myDb = new DatabaseHelper(this);

        editName = (EditText) findViewById(R.id.editText_name);
        editSurname =
        (EditText) findViewById(R.id.editText_surname);
        editMarks = (EditText) findViewById(R.id.editText_Marks);
        editTextId = (EditText) findViewById(R.id.editText_id);
        btnAddData = (Button) findViewById(R.id.button_add);
        btnviewAll = (Button) findViewById(R.id.button_viewAll);
        btnviewUpdate= (Button) findViewById(R.id.button_update);
        btnDelete= (Button) findViewById(R.id.button_delete);
        AddData();
        viewAll();
        UpdateData();
        DeleteData();
    }
    public void DeleteData() {
        btnDelete.setOnClickListener(
            new View.OnClickListener() {
                @Override
                public void onClick(View v) {
                    Integer deletedRows =
myDb.deleteData(editTextId.getText().toString());
                    if(deletedRows > 0)

Toast.makeText(MainActivity.this, "Data
Deleted", Toast.LENGTH_LONG).show();
                        else

Toast.makeText(MainActivity.this, "Data not
Deleted", Toast.LENGTH_LONG).show();
                    }
                }
            }
        );
    }
}

```

```

        }
    }
    );
}
public void UpdateData() {
    btnviewUpdate.setOnClickListener(
        new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                boolean isUpdate =
myDb.updateData(editTextId.getText().toString(),
                    editName.getText().toString(),

editSurname.getText().toString(),editMarks.getText().toString())
;

                if(isUpdate == true)

Toast.makeText(MainActivity.this,"Data
Update",Toast.LENGTH_LONG).show();
                else

Toast.makeText(MainActivity.this,"Data not
Updated",Toast.LENGTH_LONG).show();
            }
        }
    );
}
public void AddData() {
    btnAddData.setOnClickListener(
        new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                boolean isInserted =
myDb.insertData(editName.getText().toString(),

editSurname.getText().toString(),
                    editMarks.getText().toString()
);

                if(isInserted == true)

Toast.makeText(MainActivity.this,"Data
Inserted",Toast.LENGTH_LONG).show();
                else

Toast.makeText(MainActivity.this,"Data not
Inserted",Toast.LENGTH_LONG).show();
            }
        }
    );
}

```

```

        }
    };
}

public void viewAll() {
    btnviewAll.setOnClickListener(
        new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Cursor res = myDb.getAllData();
                if(res.getCount() == 0) {
                    // show message
                    showMessage("Error", "Nothing found");
                    return;
                }

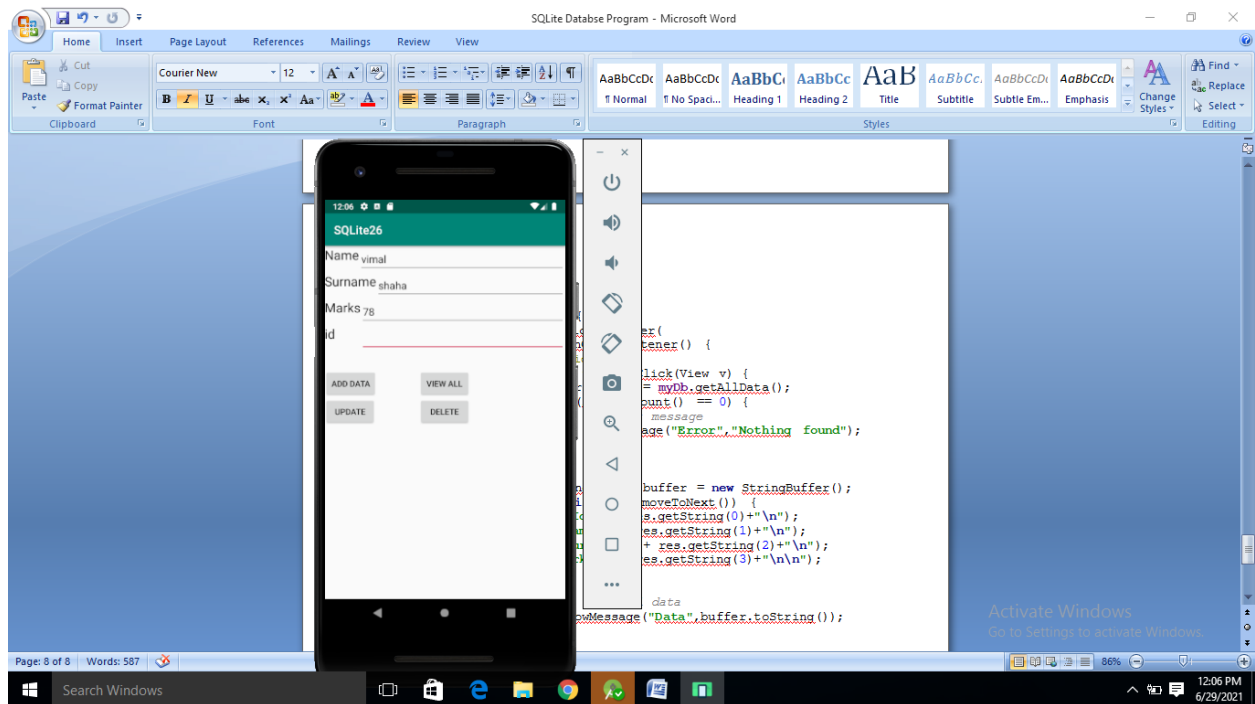
                StringBuffer buffer = new StringBuffer();
                while (res.moveToNext()) {
                    buffer.append("Id :"+ res.getString(0)+"\n");
                    buffer.append("Name :"+ res.getString(1)+"\n");
                    buffer.append("Surname :"+ res.getString(2)+"\n");
                    buffer.append("Marks :"+ res.getString(3)+"\n\n");
                }

                // Show all data
                showMessage("Data",buffer.toString());
            }
        }
    );
}

public void showMessage(String title,String Message){
    AlertDialog.Builder builder = new
AlertDialog.Builder(this);
    builder.setCancelable(true);
    builder.setTitle(title);
    builder.setMessage(Message);
    builder.show();
}

}

```

Slip1_2 /slip16_2

TimeDemo(TimePicker DatePicker)

//MainActivity.java

```
package com.example.timedemo;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.DatePicker;
import android.widget.TimePicker;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {
    TimePicker tp;
    DatePicker dp;
```

```

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    tp=(TimePicker)findViewById(R.id.timePicker);
    // tp.setIs24HourView(true);
    dp=(DatePicker)findViewById(R.id.datePicker);

}

public void onClick(View view) {

    Toast.makeText(getApplicationContext(),
        "Time Selected"+tp.getHour()+":"+tp.getMinute(),
        Toast.LENGTH_SHORT).show();

}

public void showDate(View view) {

    Toast.makeText(getApplicationContext(),
        "date selected"+(dp.getMonth()+1)+
            "/" +dp.getDayOfMonth()+
            "/" +dp.getYear(),
        Toast.LENGTH_SHORT).show();

}
}

```

//activity_main.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"
    android:orientation="vertical"
    tools:context=".MainActivity">

    <TimePicker
        android:id="@+id/timePicker"
        android:layout_width="wrap_content"
        android:layout_height="238dp" />

```

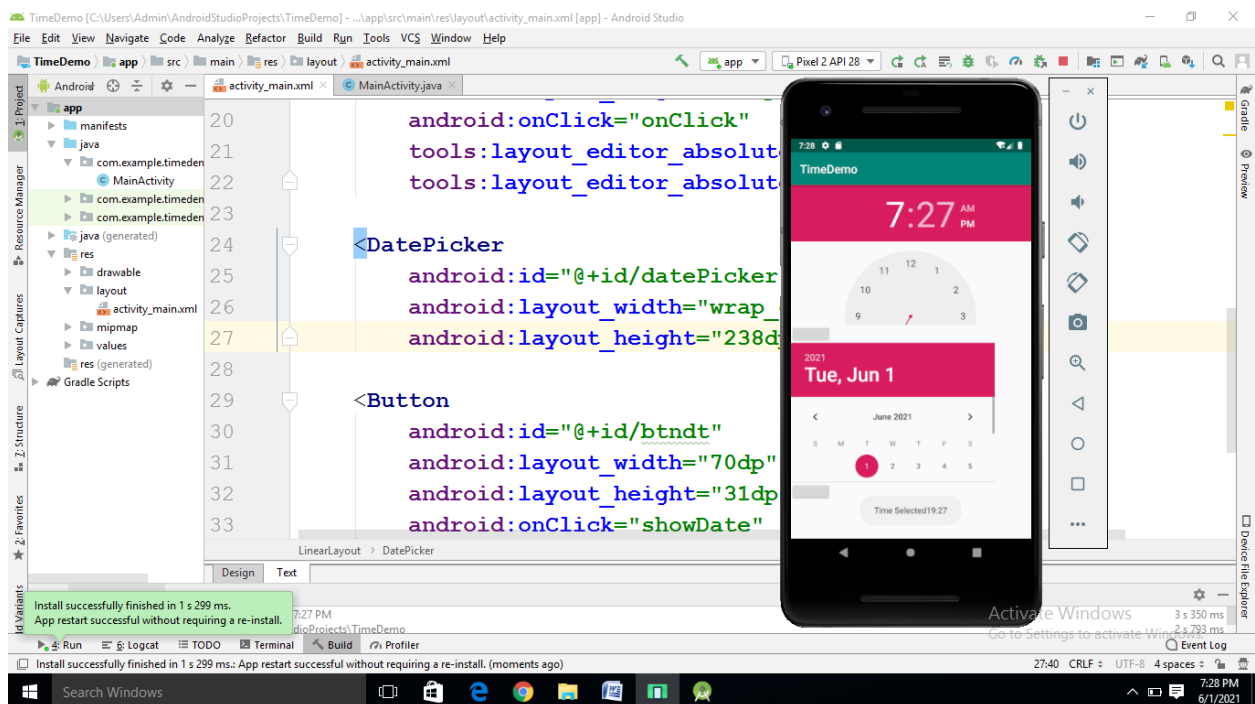
```

<Button
    android:id="@+id/btnSet"
    android:layout_width="70dp"
    android:layout_height="31dp"
    android:onClick="onClick"
    tools:layout_editor_absoluteX="174dp"
    tools:layout_editor_absoluteY="193dp" />

<DatePicker
    android:id="@+id/datePicker"
    android:layout_width="wrap_content"
    android:layout_height="238dp" />

<Button
    android:id="@+id/btndt"
    android:layout_width="70dp"
    android:layout_height="31dp"
    android:onClick="showDate"
    tools:layout_editor_absoluteX="174dp"
    tools:layout_editor_absoluteY="193dp" />
</LinearLayout>

```



Slip19_1/slip10_1

BasicViews(Toggle Button)

//MainActivity.java

```
package com.example.basicviews;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.CheckBox;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import android.widget.Toast;
import android.widget.ToggleButton;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        Button btsave=(Button) findViewById(R.id.button1);
        btsave.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Toast.makeText(getApplicationContext(),"you clicked
save button",Toast.LENGTH_SHORT).show();
            }
        });
        Button btopen=(Button) findViewById(R.id.button2);
        btopen.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Toast.makeText(getApplicationContext(),"you clicked
open button",Toast.LENGTH_SHORT).show();
            }
        });
        final CheckBox
chk=(CheckBox) findViewById(R.id.checkBox);
        chk.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                if (((CheckBox)v).isChecked())
```

```

        Toast.makeText(getApplicationContext(), "you checked
check box1 button", Toast.LENGTH_SHORT).show();
    }
    else
        Toast.makeText(getApplicationContext(), "you
unchecked check box1 button", Toast.LENGTH_SHORT).show();
    }
});
RadioGroup rgb=(RadioGroup) findViewById(R.id.rdgrp1);
rgb.setOnCheckedChangeListener(new
RadioGroup.OnCheckedChangeListener() {
    @Override
    public void onCheckedChanged(RadioGroup group, int
checkedId) {
        RadioButton rb1=
(RadioButton) findViewById(R.id.rd1);
        if (rb1.isChecked())
        {
            Toast.makeText(getApplicationContext(), "you checked
option1", Toast.LENGTH_SHORT).show();
        }
        else
        {
            Toast.makeText(getApplicationContext(), "you checked
option2", Toast.LENGTH_SHORT).show();
        }
    }
});
ToggleButton
tb=(ToggleButton) findViewById(R.id.toggle1);
tb.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        if(((ToggleButton)v).isChecked())
        {Toast.makeText(getApplicationContext(), "toggle button
is on", Toast.LENGTH_SHORT).show();}
        else
        {Toast.makeText(getApplicationContext(), "toggle button
is off", Toast.LENGTH_SHORT).show();}
    }
});
}
}

```

//activity_main.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="fill_parent"
    android:layout_height="fill_parent"
    android:orientation="vertical"
    tools:context=".MainActivity">

    <Button
        android:id="@+id/button1"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"

        android:text="save" />

    <Button
        android:id="@+id/button2"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"

        android:text="open" />

    <ImageButton
        android:id="@+id/btnimg"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:src="@mipmap/pic3" />

    <TextView
        android:id="@+id/text1"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"/>

    <EditText
        android:id="@+id/editText"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Name" />

    <CheckBox
        android:id="@+id/checkbox"
        android:layout_width="fill_parent"
```

```

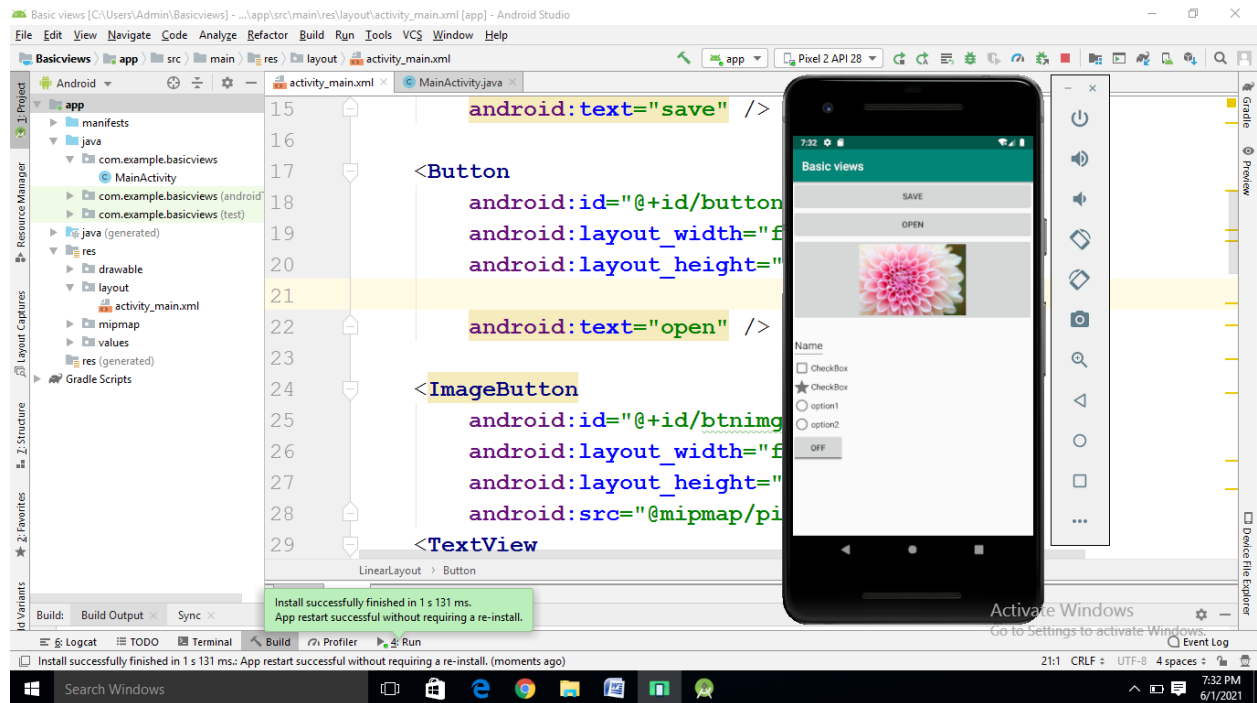
        android:layout_height="wrap_content"
        android:text="CheckBox" />

<CheckBox
    android:id="@+id/checkBox2"
style="?android:attr/starStyle"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="CheckBox" />

<RadioGroup
    android:id="@+id/rdgrp1"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical" >

    <RadioButton
        android:id="@+id/rd1"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:text="option1"/>
    <RadioButton
        android:id="@+id/rd2"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:text="option2"/>
</RadioGroup>
<ToggleButton
    android:id="@+id/toggle1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content" />
</LinearLayout>

```



Slip1_1

Program to show lifecycle of activity

MainActivity.java

```
package com.example.tybc;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.util.Log;

import android.os.Bundle;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {
    String tag="Events";

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



```

        Log.d(tag, "in on create event");
        //Displaying Toast with Hello Javatpoint message
        Toast.makeText(getApplicationContext(), "Hello TYBCA
Student", Toast.LENGTH_SHORT).show();

    }

    @Override
    public void onStart() {
        super.onStart();
        Log.d(tag, "in on start event");
    }

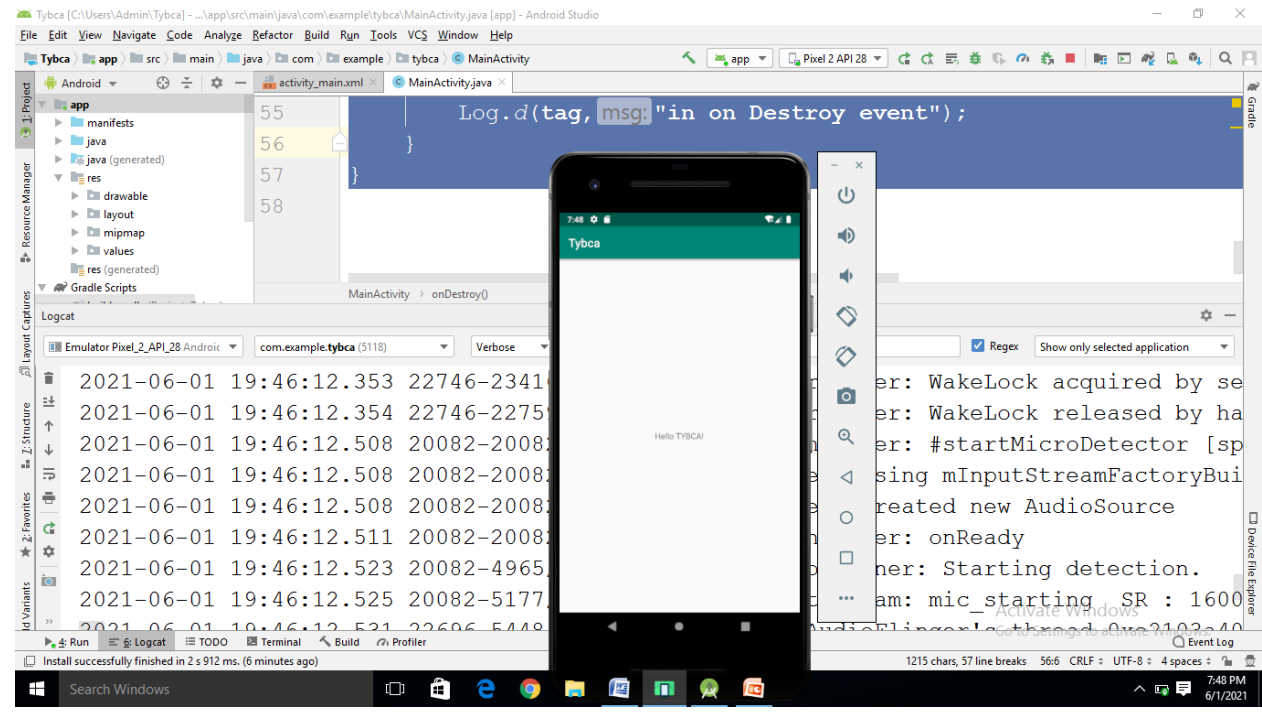
    @Override
    public void onStop() {
        super.onStop();
        Log.d(tag, "in on stop event");
    }

    @Override
    protected void onResume() {
        super.onResume();
        Log.d(tag, "in on resume event");
    }

    @Override
    public void onPause() {
        super.onPause();
        Log.d(tag, "in on pause event");
    }

    @Override
    protected void onDestroy() {
        super.onDestroy();
        Log.d(tag, "in on Destroy event");
    }
}

```



Slip2_2

```
package com.example.maptest;

import androidx.fragment.app.FragmentActivity;

import android.os.Bundle;

import com.google.android.gms.maps.CameraUpdateFactory;
import com.google.android.gms.maps.GoogleMap;
import com.google.android.gms.maps.OnMapReadyCallback;
import com.google.android.gms.maps.SupportMapFragment;
import com.google.android.gms.maps.model.LatLng;
import com.google.android.gms.maps.model.MarkerOptions;

public class MapsActivity extends FragmentActivity implements
OnMapReadyCallback {

    private GoogleMap mMap;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
```

```

        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_maps);
        // Obtain the SupportMapFragment and get notified when
        the map is ready to be used.
        SupportMapFragment mapFragment = (SupportMapFragment)
        getSupportFragmentManager()
            .findFragmentById(R.id.map);
        mapFragment.getMapAsync(this);
    }

    /**
     * Manipulates the map once available.
     * This callback is triggered when the map is ready to be
     used.
     * This is where we can add markers or lines, add listeners
     or move the camera. In this case,
     * we just add a marker near Sydney, Australia.
     * If Google Play services is not installed on the device,
     the user will be prompted to install
     * it inside the SupportMapFragment. This method will only
     be triggered once the user has
     * installed Google Play services and returned to the app.
     */
    @Override
    public void onMapReady(GoogleMap googleMap) {
        mMap = googleMap;

        // Add a marker in Sydney and move the camera
        LatLng sydney = new LatLng(-34, 151);
        mMap.addMarker(new
        MarkerOptions().position(sydney).title("Marker in Sydney"));
        mMap.moveCamera(CameraUpdateFactory.newLatLng(sydney));
    }
}

```

slip5_2

//Google Map Zoom in ,Zoom-out Program

//MapsActivity.java

```

package com.example.mygps;

import androidx.fragment.app.FragmentActivity;

import android.os.Bundle;
import android.view.KeyEvent;

import com.google.android.gms.maps.CameraUpdateFactory;
import com.google.android.gms.maps.GoogleMap;
import com.google.android.gms.maps.OnMapReadyCallback;
import com.google.android.gms.maps.SupportMapFragment;
import com.google.android.gms.maps.model.LatLng;
import com.google.android.gms.maps.model.MarkerOptions;

public class MapsActivity<onMapReady> extends
FragmentActivity implements OnMapReadyCallback {

    private GoogleMap mMap;

    @Override
    protected void onCreate(Bundle savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_maps);
        // Obtain the SupportMapFragment and get
        notified when the map is ready to be used.
        SupportMapFragment mapFragment =
        (SupportMapFragment) getSupportFragmentManager()
            .findFragmentById(R.id.map);
        mapFragment.getMapAsync(this);
    }

    /**
     * Manipulates the map once available.
     * This callback is triggered when the map is ready
     to be used.
     * This is where we can add markers or lines, add

```

```

listeners or move the camera. In this case,
    * we just add a marker near Sydney, Australia.
    * If Google Play services is not installed on the
device, the user will be prompted to install
    * it inside the SupportMapFragment. This method
will only be triggered once the user has
    * installed Google Play services and returned to
the app.
    */
@Override
public void onMapReady(GoogleMap googleMap) {
    mMap = googleMap;

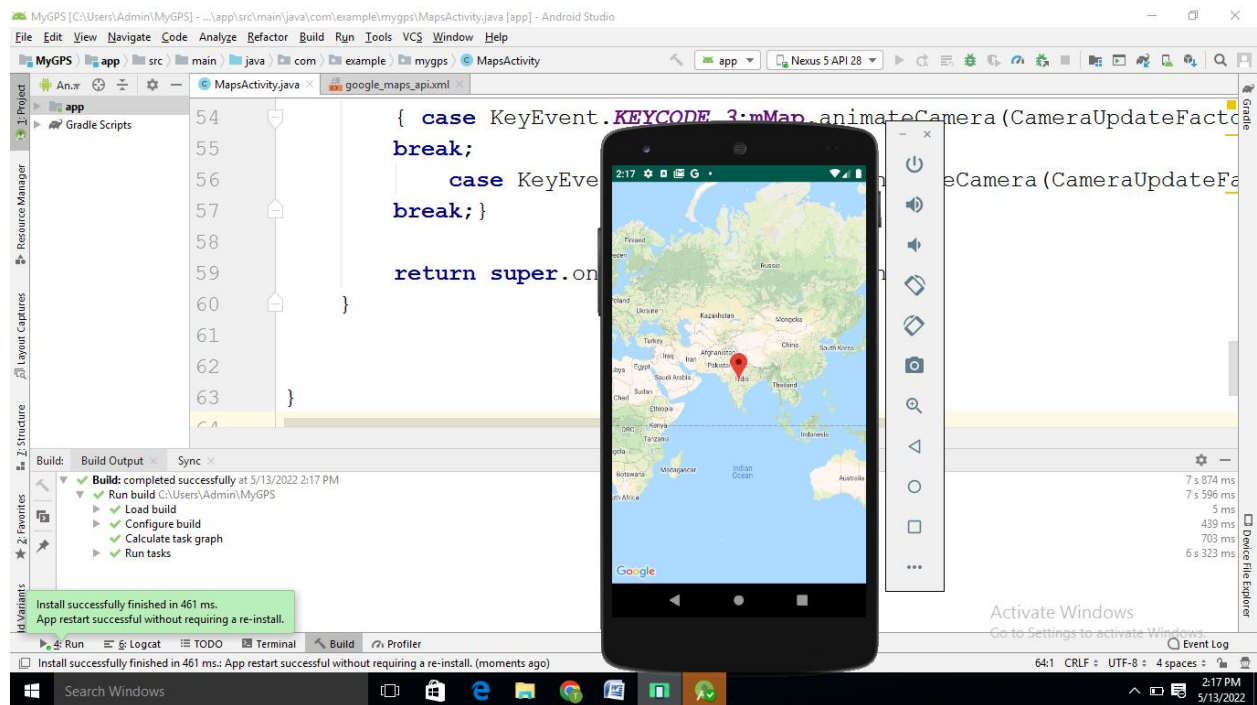
    // Add a marker in Sydney and move the camera
    LatLng sydney = new LatLng(21, 78);
    mMap.addMarker(new
MarkerOptions().position(sydney).title("Marker in
Sydney"));

mMap.moveCamera(CameraUpdateFactory.newLatLng(sydney));
}

@Override
public boolean onKeyDown(int keyCode, KeyEvent
event) {
    switch (keyCode)
    { case
KeyEvent.KEYCODE_3:mMap.animateCamera(CameraUpdateFacto
ry.zoomIn());
        break;
        case KeyEvent.KEYCODE_1
:mMap.animateCamera(CameraUpdateFactory.zoomOut());
        break;}

    return super.onKeyDown(keyCode, event);
}
}

```



slip3_2 / slip15_2

//ActivityMain.java

```
package com.example.slip3_2;  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
  
public class MainActivity extends AppCompatActivity {  
    @Override  
    protected void onCreate(Bundle savedInstanceState) {
```

```

        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        final EditText editText = findViewById(R.id.name);

        final EditText text2=findViewById(findViewById(R.id.sname);
        final EditText text3=findViewById(findViewById(R.id.marks);

        Button button = findViewById(R.id.button);
        button.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                String name =
editText.getText().toString().trim();
                String sname=text2.getText().toString().trim();

                String marks =
text3.getText().toString().trim();
                Bundle bundle = new Bundle();

                bundle.putString("value1",name);
                bundle.putString("value2",sname);
                bundle.putString("value3",marks);
                Intent intent = new Intent(MainActivity.this,
SecondActivirt.class);
                intent.putExtras(bundle);
                startActivity(intent);

            }
        });
    }
}

```

//main_activity.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"
    android:orientation="vertical"

```

```

tools:context=".MainActivity">

<EditText
    android:id = "@+id/name"
    android:layout_width = "match_parent"
    android:layout_height = "wrap_content"
    android:layout_gravity = "center"
    android:hint = "Enter name"
    android:inputType = "text" />
<EditText
    android:id = "@+id/sname"
    android:layout_width = "match_parent"
    android:layout_height = "wrap_content"
    android:layout_gravity = "center"
    android:hint = "Enter surname"
    android:inputType = "text" />
<EditText
    android:id = "@+id/marks"
    android:layout_width = "match_parent"
    android:layout_height = "wrap_content"
    android:layout_gravity = "center"
    android:hint = "Enter marks"
    android:inputType = "text" />
<Button
    android:id = "@+id/button"
    android:layout_width = "wrap_content"
    android:layout_height = "wrap_content"
    android:layout_gravity = "center"
    android:layout_marginTop = "16dp"
    android:text = "Next" />

</LinearLayout>

//SecondActivity.java
package com.example.slip3_2;

import android.content.Intent;
import android.os.Bundle;
import android.widget.TextView;

import androidx.appcompat.app.AppCompatActivity;

public class SecondActivirt extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {

```



```

        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_second);
        Bundle bundle = getIntent().getExtras();
        if (bundle != null) {
            String value = bundle.getString("value1");
            String value2 = bundle.getString("value2");
            String value3 = bundle.getString("value3");
            TextView textView = findViewById(R.id.text_view);
            TextView textView2 = findViewById(R.id.texttryr);
            TextView textView3 =
findViewById(R.id.textcollection);
            textView.setText(value);
            textView2.setText(value2);
            textView3.setText(value3);

        }
    }
}

```

//activity_second.xml

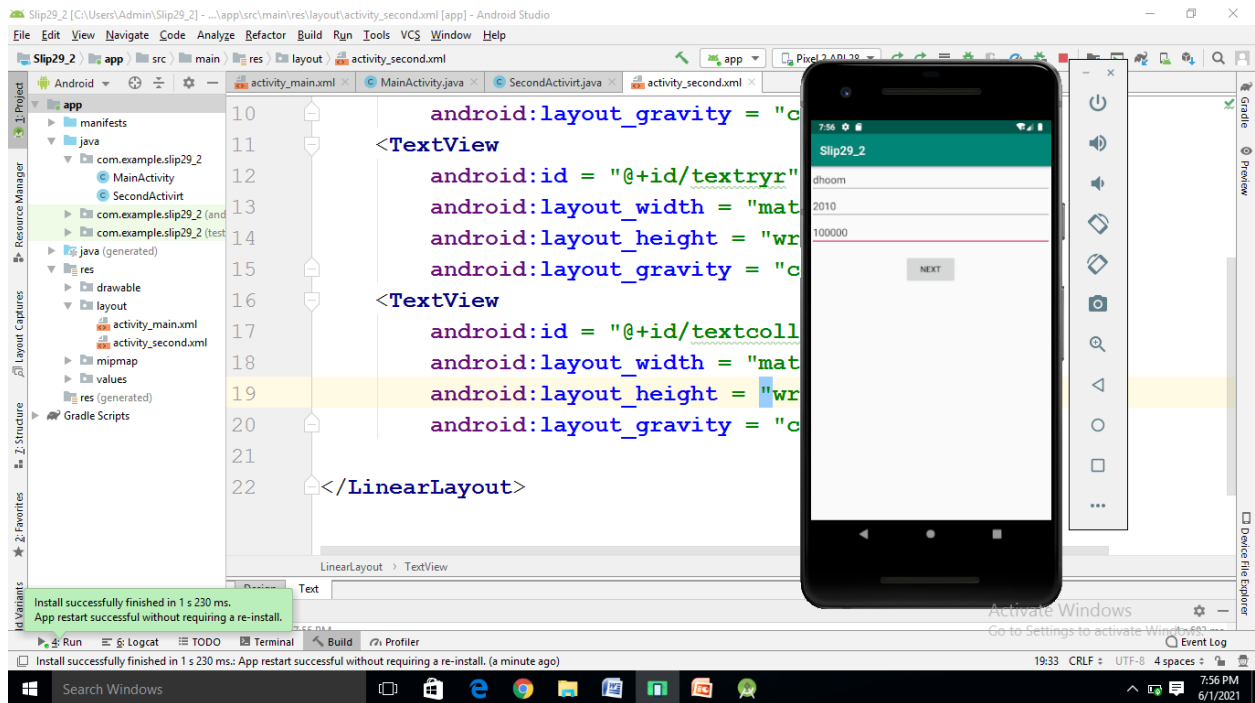
```

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

    <TextView
        android:id="@+id/text_view"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_gravity="center" />
    <TextView
        android:id="@+id/texttryr"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_gravity="center" />
    <TextView
        android:id="@+id/textcollection"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_gravity="center" />

</LinearLayout>

```



```
//slip13_1 (Scroll view)
```

```
//Activity_Main.java
```

```
package com.example.slip22_1;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.os.Bundle;
```

```
public class MainActivity extends AppCompatActivity {
```

```
    @Override
```

```
    protected void onCreate(Bundle savedInstanceState) {
```

```
        super.onCreate(savedInstanceState);
```

```
        setContentView(R.layout.activity_main);
```

```
    }
```

```
}
```

```
//activity_main.xml
```

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
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">

    <ScrollView
        android:layout_width="match_parent"
        android:layout_height="match_parent">

        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:orientation="vertical">
            <Button
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:layout_gravity="center"
                android:text="Button 1" />
            <Button
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:layout_gravity="center"
                android:text="Button 2" />
            <Button
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:layout_gravity="center"
                android:text="Button 3" />
            <Button
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:layout_gravity="center"
                android:text="Button 4" />
            <Button
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:layout_gravity="center"
                android:text="Button 5" />
            <Button
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:layout_gravity="center"

```

```

        android:text="Button 6" />
<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center"
    android:text="Button 7" />

<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center"
    android:text="Button 10" />

<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center"
    android:text="Button 8" />
<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center"
    android:text="Button 9" />

<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center"
    android:text="Button 11" />
<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center"
    android:text="Button 12" />
<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center"
    android:text="Button 13" />
<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center"
    android:text="Button 14" />
<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"

```

```

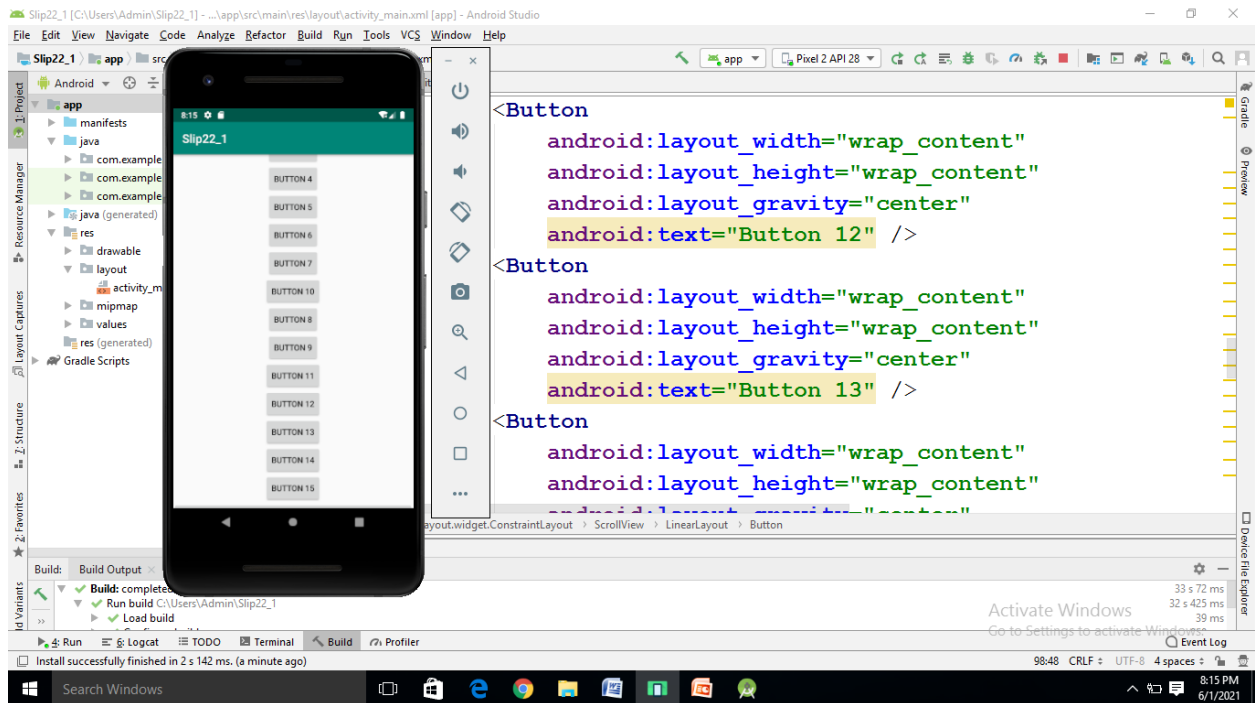
        android:layout_gravity="center"
        android:text="Button 15" />
    <Button
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:text="Button 16" />
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:text="Button 17" />
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:text="Button 18" />

    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:text="Button 19" />
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:text="Button 20" />

    </LinearLayout>
</ScrollView>

</androidx.constraintlayout.widget.ConstraintLayout>

```



Slip16_2 // simple calculator

```
<?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:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/edt1"/>

    <Button
        style="?android:attr/buttonStyleSmall"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="1"
```

```

        android:id="@+id/button1"
        android:layout_marginTop="94dp"
        android:layout_below="@+id/edt1"
        android:layout_toStartOf="@+id/button4"
        android:layout_alignRight="@+id/button4"
        android:layout_alignEnd="@+id/button4" />

<Button
    style="?android:attr/buttonStyleSmall"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="2"
    android:id="@+id/button2"
    android:layout_alignTop="@+id/button1"
    android:layout_toLeftOf="@+id/button3"
    android:layout_toStartOf="@+id/button3" />

<Button
    style="?android:attr/buttonStyleSmall"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="3"
    android:id="@+id/button3"
    android:layout_alignTop="@+id/button2"
    android:layout_centerHorizontal="true" />

<Button
    style="?android:attr/buttonStyleSmall"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="4"
    android:id="@+id/button4"
    android:layout_below="@+id/button1"
    android:layout_toLeftOf="@+id/button2" />

<Button
    style="?android:attr/buttonStyleSmall"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="5"
    android:id="@+id/button5"
    android:layout_alignBottom="@+id/button4"
    android:layout_alignLeft="@+id/button2"
    android:layout_alignStart="@+id/button2" />

<Button
    style="?android:attr/buttonStyleSmall"

```

```

    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="6"
    android:id="@+id/button6"
    android:layout_below="@+id/button3"
    android:layout_alignLeft="@+id/button3"
    android:layout_alignStart="@+id/button3" />

```

```

<Button
    style="?android:attr/buttonStyleSmall"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="7"
    android:id="@+id/button7"
    android:layout_below="@+id/button4"
    android:layout_toLeftOf="@+id/button2" />

```

```

<Button
    style="?android:attr/buttonStyleSmall"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="8"
    android:id="@+id/button8"
    android:layout_below="@+id/button5"
    android:layout_alignLeft="@+id/button5"
    android:layout_alignStart="@+id/button5" />

```

```

<Button
    style="?android:attr/buttonStyleSmall"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="9"
    android:id="@+id/button9"
    android:layout_below="@+id/button6"
    android:layout_alignLeft="@+id/button6"
    android:layout_alignStart="@+id/button6" />

```

```

<Button
    style="?android:attr/buttonStyleSmall"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="+"
    android:id="@+id/buttonadd"
    android:layout_alignTop="@+id/button3"
    android:layout_toRightOf="@+id/button3"
    android:layout_marginLeft="46dp"
    android:layout_marginStart="46dp"

```



```

        android:layout_alignRight="@+id/edt1"
        android:layout_alignEnd="@+id/edt1" />

<Button
    style="?android:attr/buttonStyleSmall"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="-"
    android:id="@+id/buttonsub"
    android:layout_below="@+id/buttonadd"
    android:layout_alignLeft="@+id/buttonadd"
    android:layout_alignStart="@+id/buttonadd"
    android:layout_alignRight="@+id/buttonadd"
    android:layout_alignEnd="@+id/buttonadd" />

<Button
    style="?android:attr/buttonStyleSmall"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="*"
    android:id="@+id/buttonmul"
    android:layout_below="@+id/buttonsub"
    android:layout_alignLeft="@+id/buttonsub"
    android:layout_alignStart="@+id/buttonsub"
    android:layout_alignParentRight="true"
    android:layout_alignParentEnd="true" />

<Button
    style="?android:attr/buttonStyleSmall"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="."
    android:id="@+id/button10"
    android:layout_below="@+id/button7"
    android:layout_toLeftOf="@+id/button2" />

<Button
    style="?android:attr/buttonStyleSmall"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="0"
    android:id="@+id/button0"
    android:layout_below="@+id/button8"
    android:layout_alignLeft="@+id/button8"
    android:layout_alignStart="@+id/button8" />

<Button

```

```

        style="?android:attr/buttonStyleSmall"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="C"
        android:id="@+id/buttonC"
        android:layout_below="@+id/button9"
        android:layout_alignLeft="@+id/button9"
        android:layout_alignStart="@+id/button9" />

<Button
    style="?android:attr/buttonStyleSmall"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="/"
    android:id="@+id/buttondiv"
    android:layout_below="@+id/buttonmul"
    android:layout_alignLeft="@+id/buttonmul"
    android:layout_alignStart="@+id/buttonmul"
    android:layout_alignRight="@+id/buttonmul"
    android:layout_alignEnd="@+id/buttonmul" />

<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="="
    android:id="@+id/buttoneql"
    android:layout_below="@+id/button0"
    android:layout_marginTop="37dp"
    android:layout_alignRight="@+id/buttondiv"
    android:layout_alignEnd="@+id/buttondiv"
    android:layout_alignLeft="@+id/button10"
    android:layout_alignStart="@+id/button10" />

</RelativeLayout>

```

```

//MainActivity.java
package com.example.slip2_2;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;

```

```

public class MainActivity extends AppCompatActivity {

    Button button0 , button1 , button2 , button3 , button4 ,
    button5 , button6 ,
        button7 , button8 , button9 , buttonAdd , buttonSub
    , buttonDivision ,
        buttonMul , button10 , buttonC , buttonEqual ;

    EditText edt1 ;

    float mValueOne , mValueTwo ;

    boolean mAddition , mSubtract , mMultiplication , mDivision ;

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

        button0 = (Button) findViewById(R.id.button0);
        button1 = (Button) findViewById(R.id.button1);
        button2 = (Button) findViewById(R.id.button2);
        button3 = (Button) findViewById(R.id.button3);
        button4 = (Button) findViewById(R.id.button4);
        button5 = (Button) findViewById(R.id.button5);
        button6 = (Button) findViewById(R.id.button6);
        button7 = (Button) findViewById(R.id.button7);
        button8 = (Button) findViewById(R.id.button8);
        button9 = (Button) findViewById(R.id.button9);
        button10 = (Button) findViewById(R.id.button10);
        buttonAdd = (Button) findViewById(R.id.buttonadd);
        buttonSub = (Button) findViewById(R.id.buttonsub);
        buttonMul = (Button) findViewById(R.id.buttonmul);
        buttonDivision = (Button) findViewById(R.id.buttondiv);
        buttonC = (Button) findViewById(R.id.buttonC);
        buttonEqual = (Button) findViewById(R.id.buttoneql);
        edt1 = (EditText) findViewById(R.id.edt1);

        button1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                edt1.setText(edt1.getText()+"1");
            }
        });
    }
}

```

```
button2.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View v) {  
        edt1.setText(edt1.getText()+"2");  
    }  
});  
  
button3.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View v) {  
        edt1.setText(edt1.getText()+"3");  
    }  
});  
  
button4.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View v) {  
        edt1.setText(edt1.getText()+"4");  
    }  
});  
  
button5.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View v) {  
        edt1.setText(edt1.getText()+"5");  
    }  
});  
  
button6.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View v) {  
        edt1.setText(edt1.getText()+"6");  
    }  
});  
  
button7.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View v) {  
        edt1.setText(edt1.getText()+"7");  
    }  
});  
  
button8.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View v) {  
        edt1.setText(edt1.getText()+"8");  
    }  
});
```

```

    });

    button9.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            edt1.setText(edt1.getText()+"9");
        }
    });

    button0.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            edt1.setText(edt1.getText()+"0");
        }
    });

    buttonAdd.setOnClickListener(new View.OnClickListener()
    {
        @Override
        public void onClick(View v) {

            if (edt1 == null){
                edt1.setText("");
            }else {
                mValueOne = Float.parseFloat(edt1.getText()
+ "");

                mAddition = true;
                edt1.setText(null);
            }
        }
    });

    buttonSub.setOnClickListener(new View.OnClickListener()
    {
        @Override
        public void onClick(View v) {
            mValueOne = Float.parseFloat(edt1.getText() +
"");

            mSubtract = true ;
            edt1.setText(null);
        }
    });

    buttonMul.setOnClickListener(new View.OnClickListener()
    {
        @Override
        public void onClick(View v) {

```

```

        mValueOne = Float.parseFloat(edt1.getText() +
""");

        mMultiplication = true ;
        edt1.setText(null);
    }
});

    buttonDivision.setOnClickListener(new
View.OnClickListener() {
        @Override
        public void onClick(View v) {
            mValueOne = Float.parseFloat(edt1.getText()+"");
            mDivision = true ;
            edt1.setText(null);
        }
    });

    buttonEqual.setOnClickListener(new
View.OnClickListener() {
        @Override
        public void onClick(View v) {
            mValueTwo = Float.parseFloat(edt1.getText() +
""");

            if (mAddition == true){

                edt1.setText(mValueOne + mValueTwo + "");
                mAddition=false;
            }

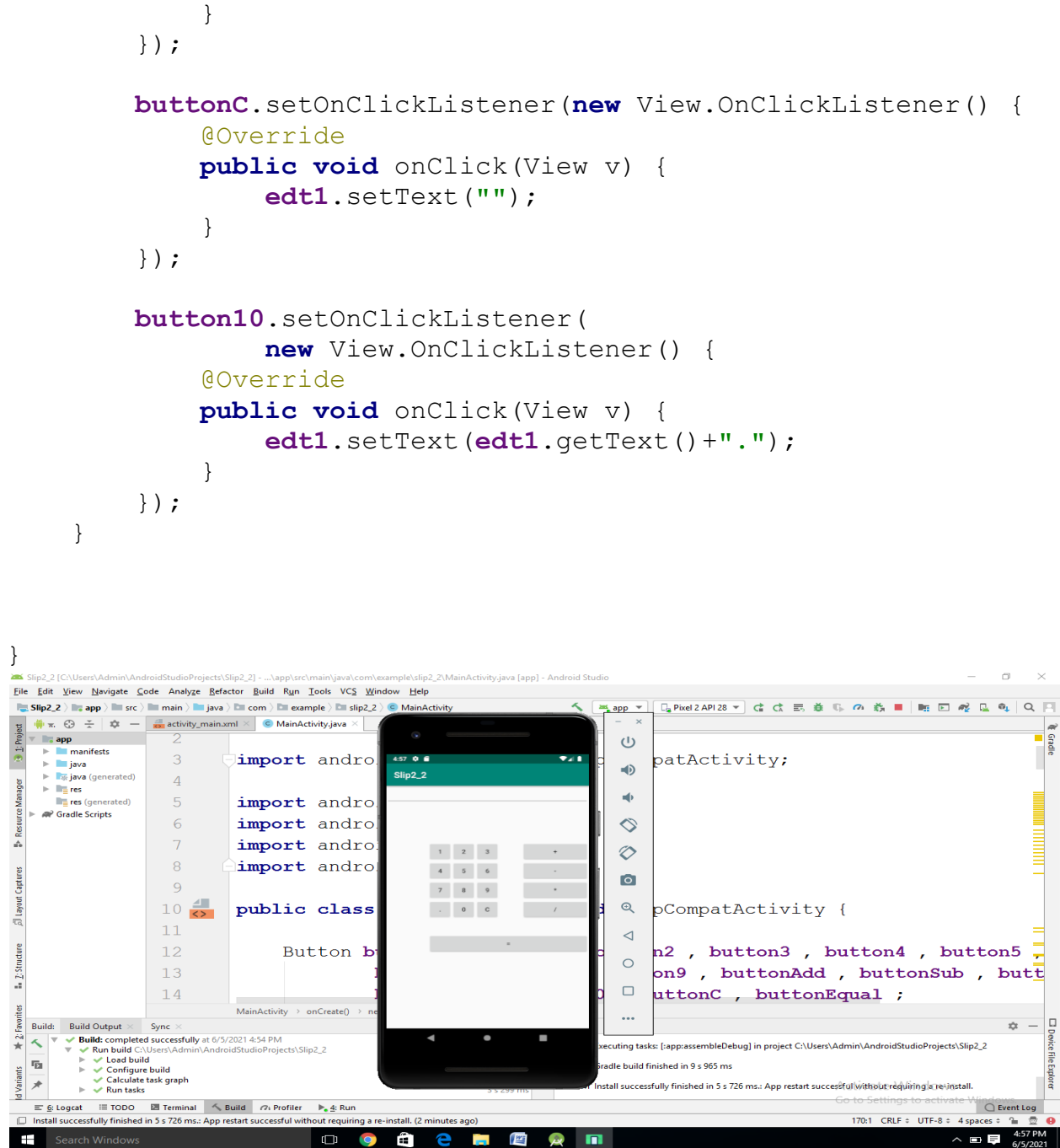
            if (mSubtract == true){
                edt1.setText(mValueOne - mValueTwo+"");

                mSubtract=false;
            }

            if (mMultiplication == true){
                edt1.setText(mValueOne * mValueTwo+"");
                mMultiplication=false;
            }

            if (mDivision == true){
                edt1.setText(mValueOne / mValueTwo+"");
                mDivision=false;
            }

```



Slip15_1

Create Hello_world application that will display Hello world in middle of the screen in blue color with white background with border

```
//activity_main.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:background="#000000"
```

```
android:padding="10dp"
```

```
tools:context=".MainActivity">
```

```
<LinearLayout
```

```
android:layout_width="match_parent"
```

```
android:layout_height="match_parent"
```



```

    android:orientation="horizontal"

    android:background="@drawable/border">

        <TextView

            android:layout_width="fill_parent"

            android:layout_height="fill_parent"

            android:gravity="center_vertical|center_horizontal"
                android:text="Hello World!"
                android:background="#A00000FF"

                android:textColor="#ffffff"
                android:textSize="40sp" />
        </LinearLayout>

</RelativeLayout>

```

//border.xml

```

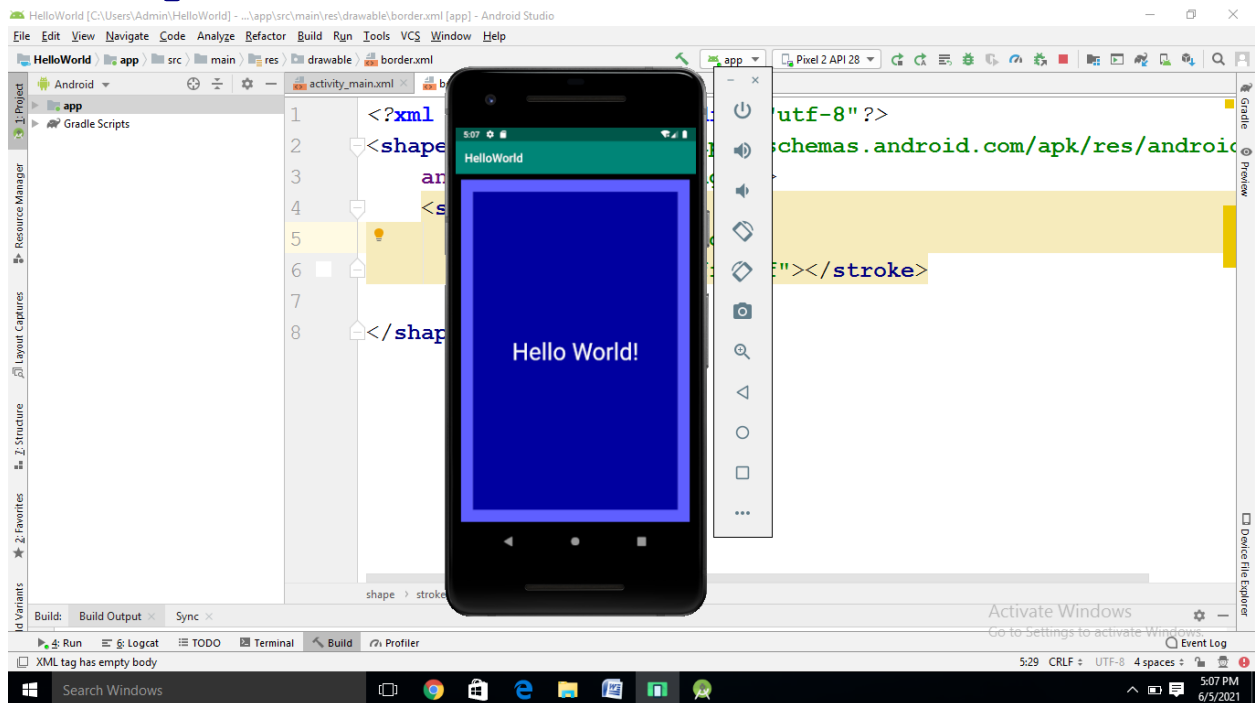
<?xml version="1.0" encoding="utf-8"?>
<shape
    xmlns:android="http://schemas.android.
com/apk/res/android"

```

```

        android:shape="rectangle">
        <stroke
            android:width="20dp"
            android:color="#ffffff"></stroke>
    </shape>

```



//Slip18_2

//activity_main.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:layout_width="wrap_content"
    android:textStyle="bold"
    android:textSize="30dp"
    android:layout_height="wrap_content"
    android:layout_gravity="center_horizontal"

    android:id="@+id/textView1" />
<TextView
    android:layout_width="wrap_content"
    android:textStyle="bold"
    android:textSize="30dp"
    android:layout_height="wrap_content"
    android:layout_gravity="center_horizontal"

    android:id="@+id/textView2" />

<EditText
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="First no"
    android:id="@+id/editText1"
    />
<EditText
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Second no"

    android:id="@+id/editText2" />
<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center_horizontal"

    android:text="power"
    android:id="@+id/button1"
    />
<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center_horizontal"

    android:text="average"

```

```

        android:id="@+id/button2"
    />

</LinearLayout>

```

//MainActivity.java

```

package com.example.slip18_2;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;

public class MainActivity extends AppCompatActivity {
    TextView txt1,txt2;
    EditText edt1,edt2;
    Button btn1, btn2;
    int num1,num2;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        txt1 = (TextView) findViewById(R.id.textView1);
        txt2 = (TextView) findViewById(R.id.textView2);
        edt1 = (EditText) findViewById(R.id.editText1);
        edt2 = (EditText) findViewById(R.id.editText2);
        btn2 = (Button) findViewById(R.id.button2);
        btn1 = (Button) findViewById(R.id.button1);
        btn1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent intent1 = new
Intent(MainActivity.this, SecondActivity.class);
                int ans=1;
                num1 =
Integer.parseInt(txt1.getText().toString());

```

```

        num2 =
Integer.parseInt(txt2.getText().toString());

        for(int i=1;i<num1;i++)
            ans=ans*num2;

//intent1.putExtra("ans",edt2.getText().toString());
        startActivity(intent1);
        // startActivityForResult(intent1,1);
    }
});
btn2.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        Intent intent1 = new
Intent(MainActivity.this, SecondActivity.class);
        int avg;
        num1 =
Integer.parseInt(txt1.getText().toString());
        num2 =
Integer.parseInt(txt2.getText().toString());
        avg=num1+num2/2;

intent1.putExtra("ans",edt2.getText().toString());

intent1.putExtra("ang",edt2.getText().toString());
        startActivity(intent1);

        // startActivityForResult(intent1,1);
    }
});
}
}

```

//scond_activity.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:orientation="vertical"

```

```

    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".SecondActivity">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Second Screen"
        android:textSize="30dp"
        android:textStyle="bold"
        android:layout_gravity="center_horizontal"
        android:id="@+id/textView1" />
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text=""
        android:textSize="22dp"
        android:id="@+id/textView2"/>
</LinearLayout>

```

//SecondActivity.java

```

package com.example.slip18_2;

import android.content.Intent;
import android.os.Bundle;
import android.widget.TextView;

import androidx.appcompat.app.AppCompatActivity;

public class SecondActivity extends AppCompatActivity {
    TextView txt1,txt2;
    int n1,n2;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.second_activity);
        txt1=(TextView) findViewById(R.id.textView1);
        txt2 = (TextView) findViewById(R.id.textView2);
        Intent intent2 = getIntent();

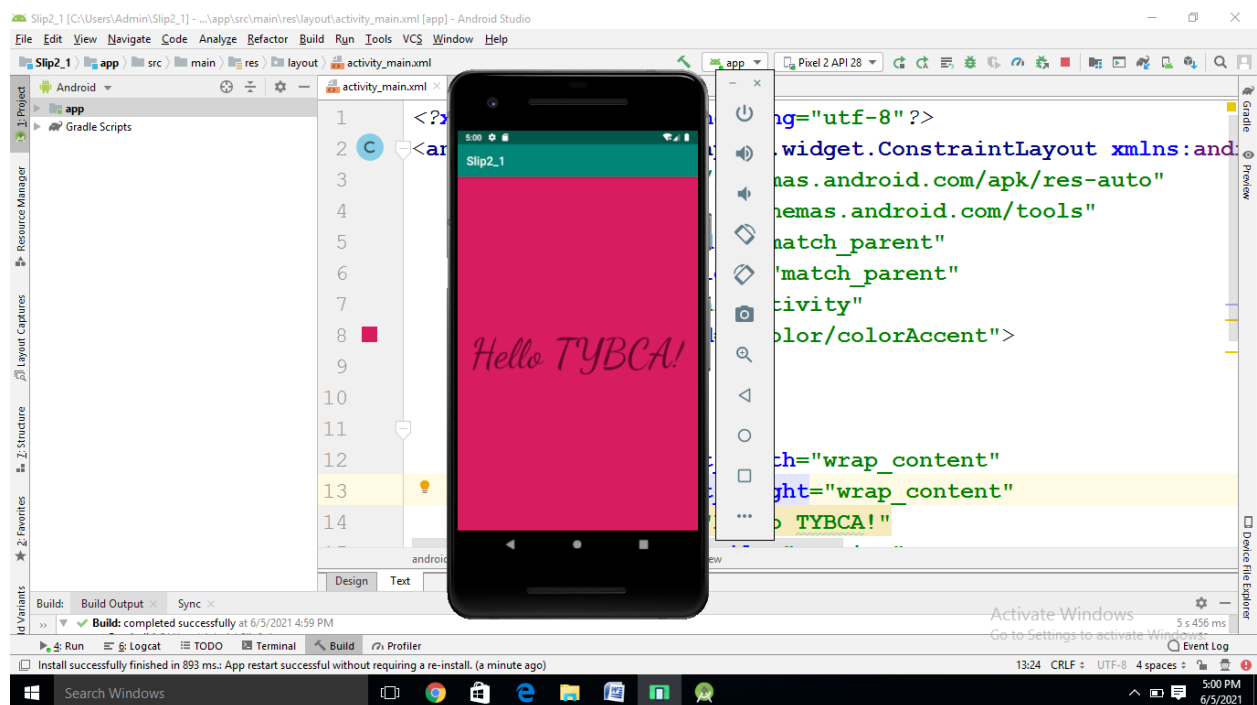
        Bundle bundle = intent2.getExtras();
        int n1 = bundle.getInt("ans");
        int n2 = bundle.getInt("ang");
        txt2.setText(n1);
        txt2.setText(n2);
    }
}

```

```
}  
}
```

Slip11_1

Create an application that will change color of screen and change the font size of text view using xml



```
<?xml version="1.0" encoding="utf-8"?>  
<androidx.constraintlayout.widget.ConstraintLayout  
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:background="@color/colorAccent">  
  
    <TextView  
        android:layout_width="wrap_content"  
        android:layout_height="wrap_content"
```

```
        android:text="Hello TYBCA!"
        android:fontFamily="cursive"
        android:textSize="70dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

Slip8_2// Send EMail

//Activity_main.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/t
    ools"

    android:layout_width="match_parent"

    android:layout_height="match_parent"
    tools:context=".MainActivity" >
```



```
<EditText
    android:id="@+id/editText1"

    android:layout_width="wrap_content"

    android:layout_height="wrap_content"

    android:layout_alignParentRight="true"

    android:layout_alignParentTop="true"

    android:layout_marginRight="22dp"

    android:layout_marginTop="16dp"
    android:ems="10" >
</EditText>
```

```
    <EditText
        android:id="@+id/editText2"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:layout_alignLeft="@+id/editText1"

        android:layout_below="@+id/editText1"
        android:layout_marginTop="18dp"
        android:ems="10" >
```

```

        <requestFocus />
    </EditText>

    <EditText
        android:id="@+id/editText3"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:layout_alignLeft="@+id/editText2"

        android:layout_below="@+id/editText2"

        android:layout_marginTop="28dp"
        android:ems="10"

        android:inputType="textMultiLine" />

    <TextView
        android:id="@+id/textView1"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:layout_alignBaseline="@+id/editText1"

        android:layout_alignBottom="@+id/editText

```

1"

```
android:layout_alignParentLeft="true"  
    android:text="To:" />
```

```
<TextView  
    android:id="@+id/textView2"
```

```
android:layout_width="wrap_content"
```

```
android:layout_height="wrap_content"
```

```
android:layout_alignBaseline="@+id/editText2"
```

```
android:layout_alignBottom="@+id/editText2"
```

```
android:layout_alignParentLeft="true"  
    android:text="Subject:" />
```

```
<TextView  
    android:id="@+id/textView3"
```

```
android:layout_width="wrap_content"
```

```
android:layout_height="wrap_content"
```

```
android:layout_alignBaseline="@+id/editText3"
```

```
android:layout_alignBottom="@+id/editText3"
```

```
android:layout_alignParentLeft="true"  
    android:text="Message:" />
```

```
<Button  
    android:id="@+id/button1"
```

```
android:layout_width="wrap_content"
```

```
android:layout_height="wrap_content"
```

```
android:layout_alignLeft="@+id/editText3"
```

```
android:layout_below="@+id/editText3"
```

```
android:layout_marginLeft="76dp"
```

```
android:layout_marginTop="20dp"  
    android:text="Send" />
```

```
</RelativeLayout>
```

```
//MainActivity.java
```

```

package com.example.sendsms;

import
androidx.appcompat.app.AppCompatActivity;
import androidx.core.app.ActivityCompat;
import
androidx.core.content.ContextCompat;

import android.os.Bundle;
import android.app.Activity;
import android.content.Intent;
import android.view.Menu;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.Button;
import android.widget.EditText;

public class MainActivity extends
AppCompatActivity {

    EditText editTextTo, editTextSubject,
    editTextMessage;
    Button send;

    @Override
    protected void onCreate(Bundle
savedInstanceState) {

super.onCreate(savedInstanceState);

```

```

setContentView(R.layout.activity_main);

        editTextTo = (EditText)
findViewById(R.id.editText1);
        editTextSubject = (EditText)
findViewById(R.id.editText2);
        editTextMessage = (EditText)
findViewById(R.id.editText3);

        send = (Button)
findViewById(R.id.button1);

        send.setOnClickListener(new
OnClickListener() {

            @Override
            public void onClick(View
arg0) {

                String to =
editTextTo.getText().toString();
                String subject =
editTextSubject.getText().toString();
                String message =
editTextMessage.getText().toString();

                Intent email = new
Intent(Intent.ACTION_SEND);

```

```

email.putExtra(Intent.EXTRA_EMAIL, new
String[]{to});

email.putExtra(Intent.EXTRA_SUBJECT,
subject);
                //need this to prompts
                email client only

email.setType("message/rfc822");

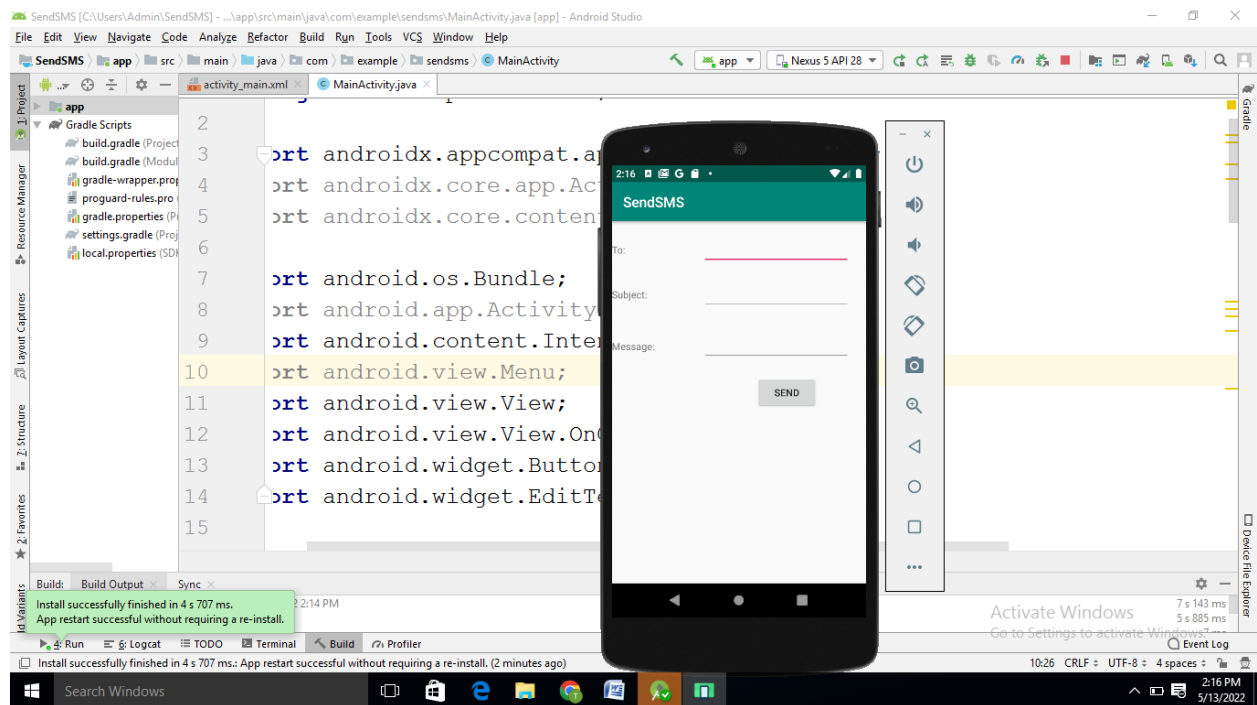
startActivity(Intent.createChooser(email,
"Choose an Email client :"));

        }

    });

}
}

```



```
package com.example.slipnew18_1;
```

```
import  
androidx.appcompat.app.AppCompatActivity;  
  
import android.content.DialogInterface;  
import android.os.Bundle;  
import android.app.Activity;  
import android.app.AlertDialog;  
import android.view.Menu;  
import android.view.View;  
import android.widget.Button;  
import android.widget.Toast;
```



```

public class MainActivity extends
AppCompatActivity {
    Button closeButton;
    AlertDialog.Builder builder;
    @Override
    protected void onCreate(Bundle
savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity_main);
    closeButton = (Button)
findViewById(R.id.button);
    builder = new
AlertDialog.Builder(this);

closeButton.setOnClickListener(new
View.OnClickListener() {
    @Override
    public void onClick(View v) {

        //Uncomment the below
code to Set the message and title from
the strings.xml file

builder.setMessage(R.string.dialog_messag
e) .setTitle(R.string.dialog_title);

        //Setting message
manually and performing action on button

```

click

```
builder.setMessage("Do  
you want to close this application ?")  
  
.setCancelable(false)  
  
.setPositiveButton("Yes", new  
DialogInterface.OnClickListener() {  
    public void  
onClick(DialogInterface dialog, int id) {  
        finish();  
    }  
})  
  
Toast.makeText(getApplicationContext(), "y  
ou choose yes action for alertbox",  
Toast.LENGTH_SHORT).show();  
  
}  
})  
  
.setNegativeButton("No", new  
DialogInterface.OnClickListener() {  
    public void  
onClick(DialogInterface dialog, int id) {  
        //  
  
        Action for 'NO' Button  
  
        dialog.cancel();  
  
        Toast.makeText(getApplicationContext(), "y  
ou choose no action for alertbox",
```

```

Toast.LENGTH_SHORT .show();
    }
    });
    //Creating dialog box
    AlertDialog alert = builder.create();
    //Setting the title
    manually

    alert.setTitle("AlertDialogExample");
    alert.show();
    }
    });
}
}

```

//activity_main.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/t
    ools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"

```

```

tools:context=".MainActivity">

<Button

android:layout_width="wrap_content"

android:layout_height="wrap_content"
    android:id="@+id/button"
    android:text="Close app"

app:layout_constraintBottom_toBottomOf="parent"

app:layout_constraintLeft_toLeftOf="parent"

app:layout_constraintRight_toRightOf="parent"

app:layout_constraintTop_toTopOf="parent"
/> </RelativeLayout>

```

```

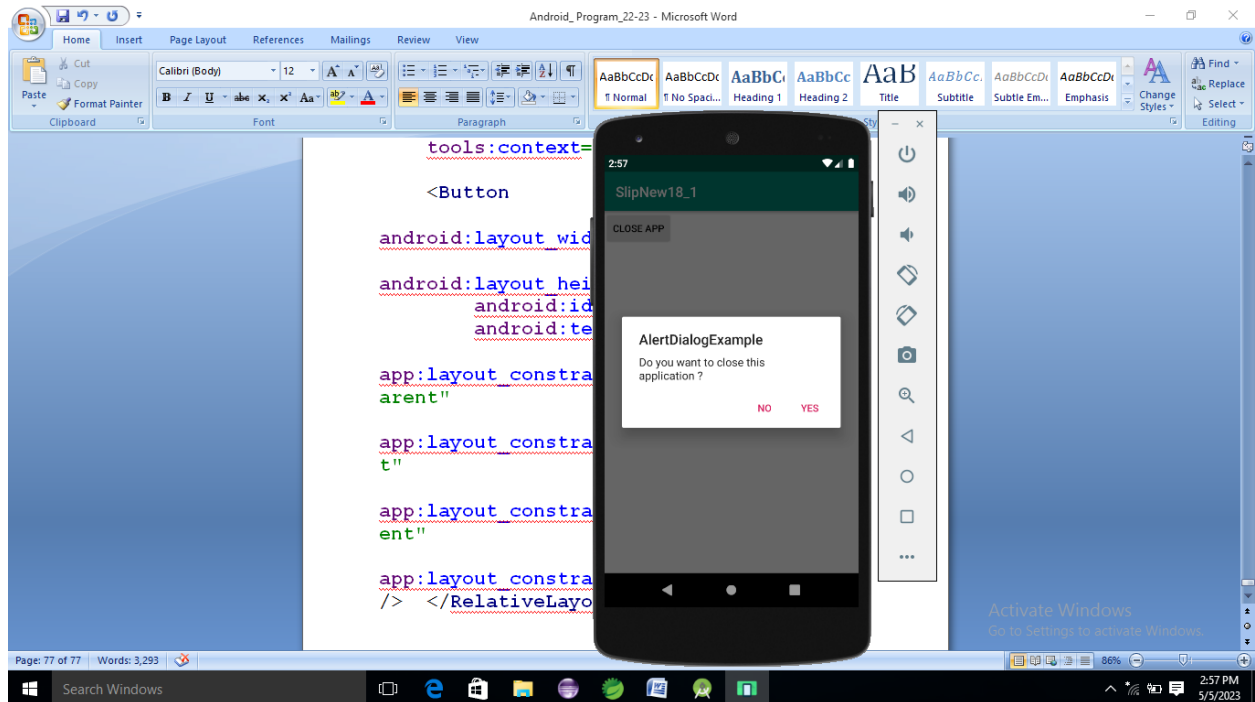
//string.xml
<resources>
    <string
name="app_name">SlipNew18_1</string>
    <string name="dialog_message">Welcome
to Alert Dialog</string>

```

```

<string
name="dialog_title">Javatpoint Alert
Dialog</string>
</resources>

```



Slip20_1

```

<?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/t  
ools"
```

```
    android:layout_width="match_parent"  
    android:layout_height="match_parent"  
    tools:context=".MainActivity">
```

```
<LinearLayout
```

```
    android:layout_width="match_parent"
```

```
    android:layout_height="wrap_content"  
        android:orientation="horizontal"  
        android:paddingBottom="40px"  
        android:weightSum="2" >
```

```
    <RadioGroup  
        android:id="@+id/rg1"
```

```
        android:layout_width="wrap_content"
```

```
        android:layout_height="match_parent"  
            android:layout_weight="1"
```

```
        android:orientation="vertical" >
```

```
            <RadioButton
```

```
                android:id="@+id/radioButton1"
```

```
                android:layout_width="wrap_content"
```

```

android:layout_height="wrap_content"

android:layout_alignParentRight="true"

android:layout_alignParentTop="true"

android:layout_marginTop="20dp"
    android:text="Image1" />

    <RadioButton

android:id="@+id/radioButton2"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:layout_alignBaseline="@+id/radioB
utton1"

android:layout_alignBottom="@+id/radioBut
ton1"

android:layout_alignParentLeft="true"
    android:text="Image2" />

```

```
        <RadioButton  
            android:id="@+id/radioButton3"  
            android:layout_width="wrap_content"  
            android:layout_height="wrap_content"  
            android:layout_marginTop="30dp"  
            android:text="Image3" />
```

```
    </RadioGroup>  
</LinearLayout>
```

```
    <Button  
        android:id="@+id/button1"  
        android:layout_width="wrap_content"  
        android:layout_height="wrap_content"  
        android:layout_alignParentLeft="true"  
        android:layout_alignParentRight="true"  
        android:layout_centerVertical="true"  
        android:text="Change Image" />
```

```
    <ImageView
```



```
        android:id="@+id/imageView1"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:layout_alignLeft="@+id/button1"

        android:layout_alignParentBottom="true"

        android:layout_alignParentRight="true"

        android:layout_below="@+id/button1"
            android:layout_marginTop="50dp"

        android:src="@drawable/ic_launcher_backgr
ound" />

</RelativeLayout>
```

```
        //Main_activity.java
package com.example.slipnew20;

import
androidx.appcompat.app.AppCompatActivity;

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

```

import android.widget.ImageView;
import android.widget.RadioGroup;

public class MainActivity extends
AppCompatActivity implements
RadioGroup.OnCheckedChangeListener {
    RadioGroup group1;
    Button gen;
    ImageView img;
    @Override
    protected void onCreate(Bundle
savedInstanceState) {

    super.onCreate(savedInstanceState);

    setContentView(R.layout.activity_main);
        group1 = (RadioGroup)
findViewById(R.id.rg1);

    group1.setOnCheckedChangeListener((RadioG
roup.OnCheckedChangeListener) this);

        // group2 = (RadioGroup)
findViewById(R.id.rg2);
        //
group2.setOnCheckedChangeListener((RadioG
roup.OnCheckedChangeListener) this);

        img = (ImageView)
findViewById(R.id.imageView1);

```

```

        // onCheckedChanged function
        gen = (Button)
findViewById(R.id.button1);
        gen.setOnClickListener(new
View.OnClickListener() {

            @Override
            public void onClick(View v) {
                // TODO Auto-generated
method stub

            }

        });

    }

    @Override
    public void
onCheckedChanged(RadioGroup group, int
checkedId) {
        // TODO Auto-generated method
stub

        switch (checkedId) {
            case R.id.radioButton1:

img.setImageResource(R.drawable.pic1);
                break;

            case R.id.radioButton2:

```

```
img.setImageResource(R.drawable.pic2);
    break;
```

```
    case R.id.radioButton3:
```

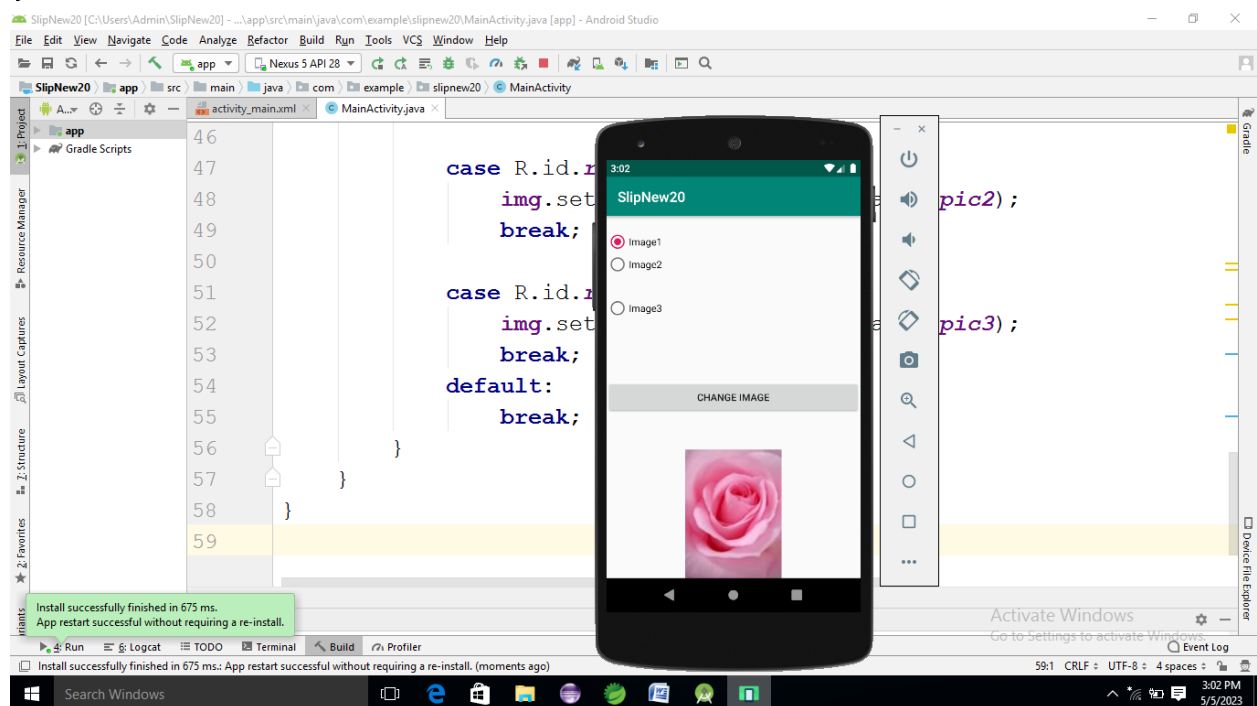
```
img.setImageResource(R.drawable.pic3);
    break;
```

```
default:
    break;
```

```
}
```

```
}
```

```
}
```



Slip1_2

```

<?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/t
ools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context=".MainActivity">
    <ProgressBar
        android:id="@+id/progressBar2"

style="?android:attr/progressBarStyleHori
zontal"

    android:layout_width="wrap_content"

    android:layout_height="wrap_content" />
</LinearLayout>

```

```
//Main_activity.java
```

```

package com.example.myprogressbar;

import androidx.appcompat.app.AppCompatActivity;

```

```

import android.os.Bundle;
import android.os.Handler;
import android.view.View;
import android.widget.ProgressBar;

public class MainActivity extends AppCompatActivity {
    static int progrss;
    ProgressBar pbar;
    int pstatus = 0;
    Handler handler = new Handler();

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        progrss = 0;
        pbar = (ProgressBar) findViewById(R.id.progressBar2);
        pbar.setMax(200);
        new Thread(new Runnable() {
            @Override
            public void run() {
                while (pstatus < 100) {
                    pstatus = doSomeWork();
                    handler.post(new Runnable() {
                        @Override
                        public void run() {
                            pbar.setProgress(pstatus);
                        }
                    });
                }
                handler.post(new Runnable() {
                    @Override
                    public void run() {
                        pbar.setVisibility(View.GONE);
                    }
                });
            }
        });

        private int doSomeWork() {
            try {
                Thread.sleep(500);
            } catch (InterruptedException e) {
                e.printStackTrace();
            }
            return ++progrss;
        }
    }
}

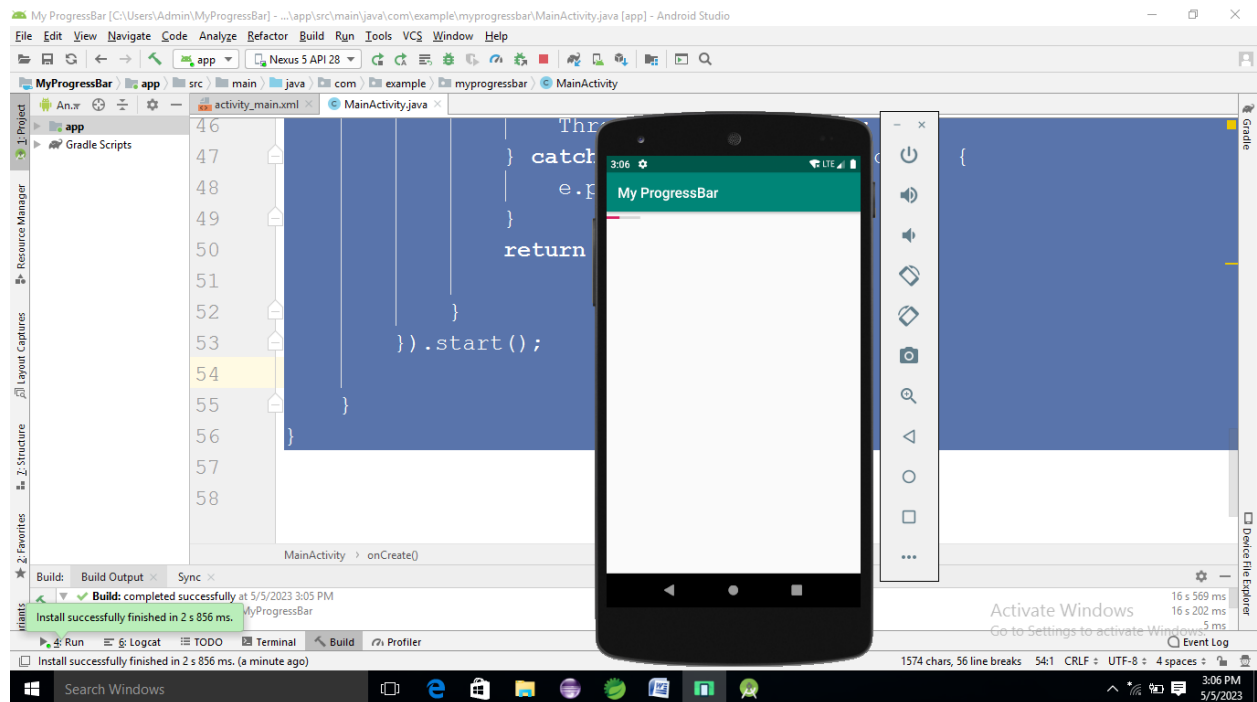
```

```

    }
    }).start();

}
}

```



Slip19_2

```
package com.example.smsdemo;
```

```
import
androidx.appcompat.app.AppCompatActivity;
```

```
import android.os.Bundle;
import android.telephony.SmsManager;
import android.view.View;
```

```

import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

public class MainActivity extends
AppCompatActivity {
    private EditText txtMobile;
    private EditText txtMessage;
    private Button btnSms;
    @Override
    protected void onCreate(Bundle
savedInstanceState) {

    super.onCreate(savedInstanceState);

    setContentView(R.layout.activity_main);
        txtMobile =
        (EditText) findViewById(R.id.mblTxt);
        txtMessage =
        (EditText) findViewById(R.id.msgTxt);
        btnSms =
        (Button) findViewById(R.id.btnSend);
        btnSms.setOnClickListener(new
View.OnClickListener() {
            @Override
            public void onClick(View v) {
                sendSMS("5556", "hello");
            }
            private void sendSMS(String
s, String hello) {

```



```

        try{
            SmsManager smgr =
SmsManager.getDefault();

smgr.sendTextMessage(txtMobile.getText().
toString(),null,txtMessage.getText().toSt
ring(),null,null);

//
smgr.sendTextMessage("9860539978",null,tx
tMessage.getText().toString(),null,null);

Toast.makeText(MainActivity.this, "SMS
Sent Successfully",
Toast.LENGTH_SHORT).show();
        }
        catch (Exception e){

Toast.makeText(MainActivity.this, "SMS
Failed to Send, Please try again",
Toast.LENGTH_SHORT).show();
        }
    }

}
}

```

//activity_main.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/t
ools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context=".MainActivity">

    <TextView
        android:id="@+id/fstTxt"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"
        android:layout_marginLeft="100dp"
        android:layout_marginTop="150dp"
        android:text="Mobile No" />
    <EditText
        android:id="@+id/mb1Txt"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

```

```

        android:layout_marginLeft="100dp"
        android:ems="10" />

<TextView
    android:id="@+id/secTxt"

    android:layout_width="wrap_content"

    android:layout_height="wrap_content"
        android:text="Message"
        android:layout_marginLeft="100dp"
/>
<EditText
    android:id="@+id/msgTxt"

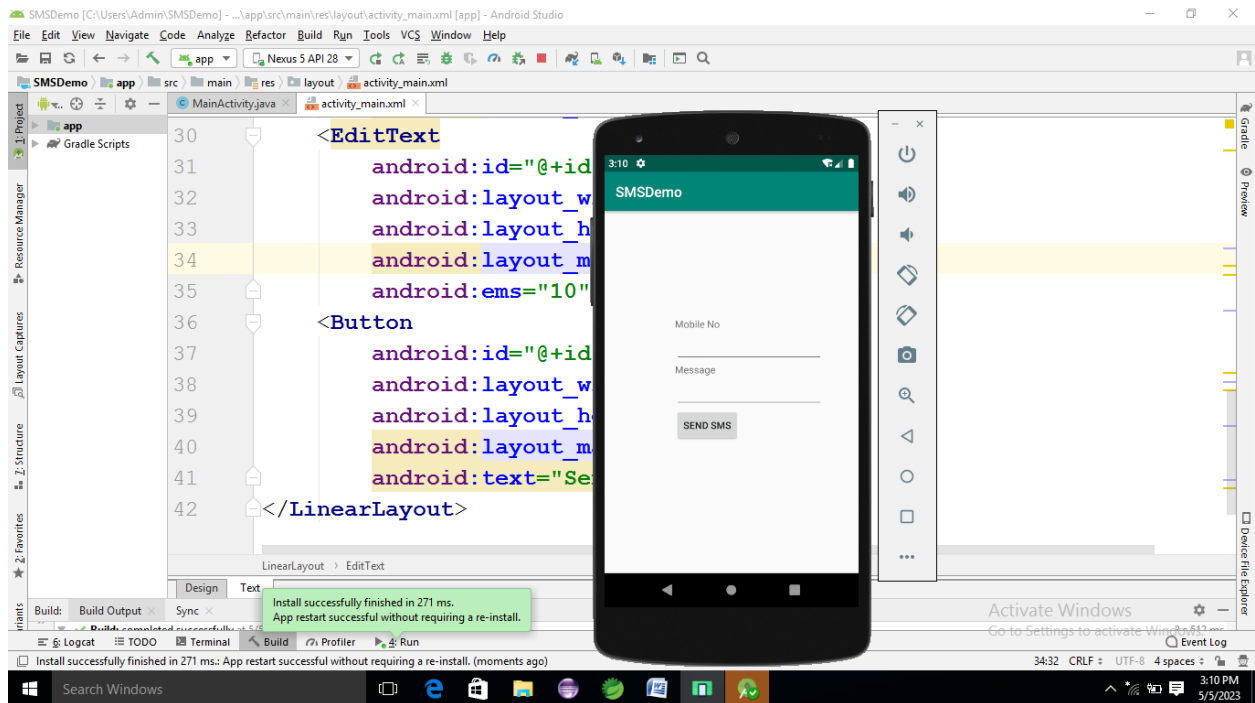
    android:layout_width="wrap_content"

    android:layout_height="wrap_content"
        android:layout_marginLeft="100dp"
        android:ems="10" />
<Button
    android:id="@+id/btnSend"

    android:layout_width="wrap_content"

    android:layout_height="wrap_content"
        android:layout_marginLeft="100dp"
        android:text="Send SMS" />
</LinearLayout>

```



slip2_2

```
package com.example.slipnew2_2;

import androidx.appcompat.app.AppCompatActivity;

import android.media.AudioManager;
import android.media.MediaPlayer;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.Toast;

import java.io.IOException;

public class MainActivity extends AppCompatActivity {
    Button playBtn, pauseBtn;
    MediaPlayer mediaPlayer;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
}
```

```

// initializing our buttons
playBtn = findViewById(R.id.idBtnPlay);
pauseBtn = findViewById(R.id.idBtnPause);

// setting on click listener for our play and pause
buttons.
playBtn.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        // calling method to play audio.
        playAudio();
    }
});

pauseBtn.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        // checking the media player
        // if the audio is playing or not.

        if (mediaPlayer.isPlaying()) {
            // pausing the media player if media player
            // is playing we are calling below line to
            // stop our media player.
            mediaPlayer.stop();
            mediaPlayer.reset();
            mediaPlayer.release();

            // below line is to display a message
            // when media player is paused.
            Toast.makeText(MainActivity.this, "Audio has
been paused", Toast.LENGTH_SHORT).show();
        } else {
            // this method is called when media
            // player is not playing.
            Toast.makeText(MainActivity.this, "Audio has
not played", Toast.LENGTH_SHORT).show();
        }
    }
});

private void playAudio() {

    String audioUrl =
"https://www.soundhelix.com/examples/mp3/SoundHelix-Song-1.mp3";

```

```

        // initializing media player
        MediaPlayer mediaPlayer = new MediaPlayer();

        // below line is use to set the audio
        // stream type for our media player.

        mediaPlayer.setAudioStreamType(AudioManager.STREAM_MUSIC);

        // below line is use to set our
        // url to our media player.
        try {
            mediaPlayer.setDataSource(audioUrl);
            // below line is use to prepare
            // and start our media player.
            mediaPlayer.prepare();
            mediaPlayer.start();

        } catch (IOException e) {
            e.printStackTrace();
        }
        // below line is use to display a toast message.
        Toast.makeText(this, "Audio started playing..",
        Toast.LENGTH_SHORT).show();
    }
}

```

//activity_main.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/idBtnPlay"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerInParent="true"
        android:text="Play Audio file"
        android:textAllCaps="false" />

```

```

        <!--Button for pausing the audio-->
        <Button
            android:id="@+id/idBtnPause"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_below="@id/idBtnPlay"
            android:layout_centerInParent="true"
            android:text="Pause Audio"
            android:textAllCaps="false" />
    </RelativeLayout>

```

//manifest.xml

```

<?xml version="1.0" encoding="utf-8"?>
<manifest
    xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.slipnew2_2">
    <uses-permission android:name="android.permission.INTERNET"
    />

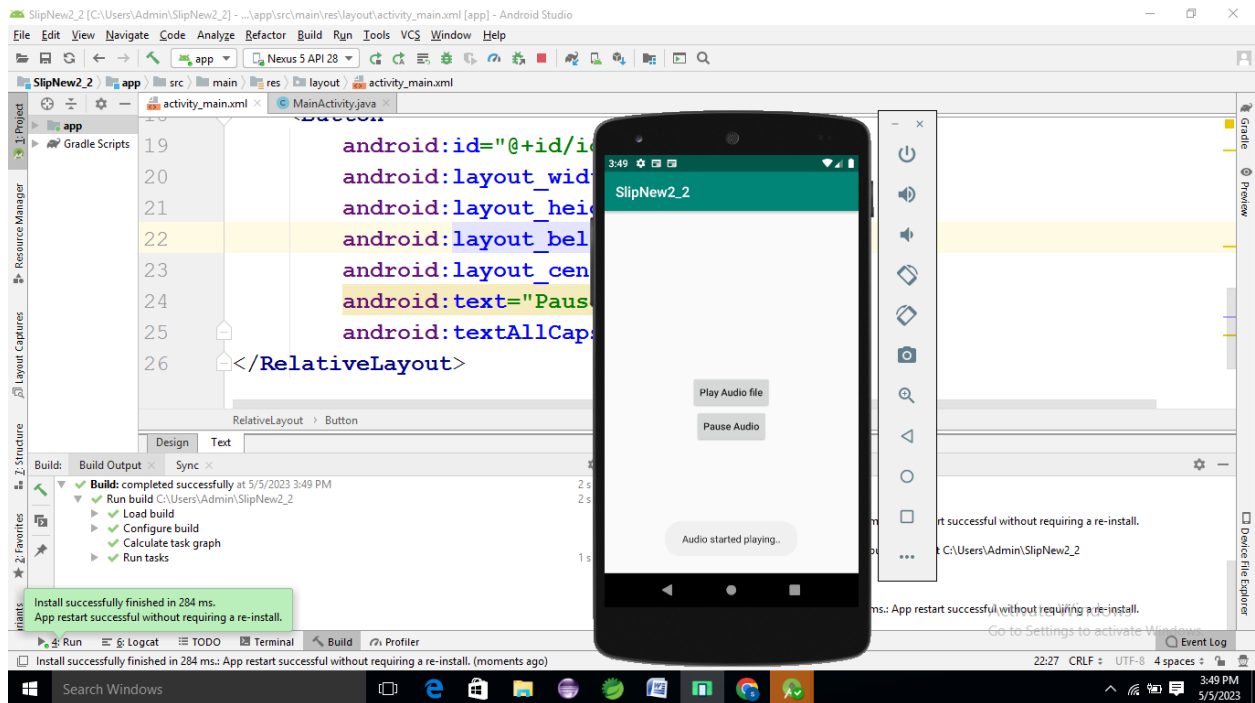
    <uses-permission
        android:name="android.permission.ACCESS_NETWORK_STATE" />

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/AppTheme">
        <activity android:name=".MainActivity">
            <intent-filter>
                <action
                    android:name="android.intent.action.MAIN" />

                <category
                    android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>

</manifest>

```



Slip17_1

Phone Dialer

//MainActivity.java

```
package com.example.intentdemo;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.content.Intent;
```

```
import android.net.Uri;
```

```
import android.os.Bundle;
```

```
import android.view.View;
```

```
import android.widget.Button;
```

```
public class MainActivity extends AppCompatActivity {  
    Button b1;
```

```
    @Override
```



```

protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    b1=(Button) findViewById(R.id.button1);

    b1.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            Intent i=new Intent(Intent.ACTION_DIAL,
Uri.parse("tel:+9860539978"));

            startActivity(i);

        }
    });
}

@Override
public void onBackPressed() {
    super.onBackPressed();
    Intent i=new Intent(this,SecondActivity.class);
    startActivity(i);
}
}

```

//activity_main.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">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hello World!"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <Button

```

```

        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/button1"
        android:text="Contact"
    />

```

```
</LinearLayout>
```

```
//SecondActivity.java
```

```

package com.example.intentdemo;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

public class SecondActivity extends AppCompatActivity {

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

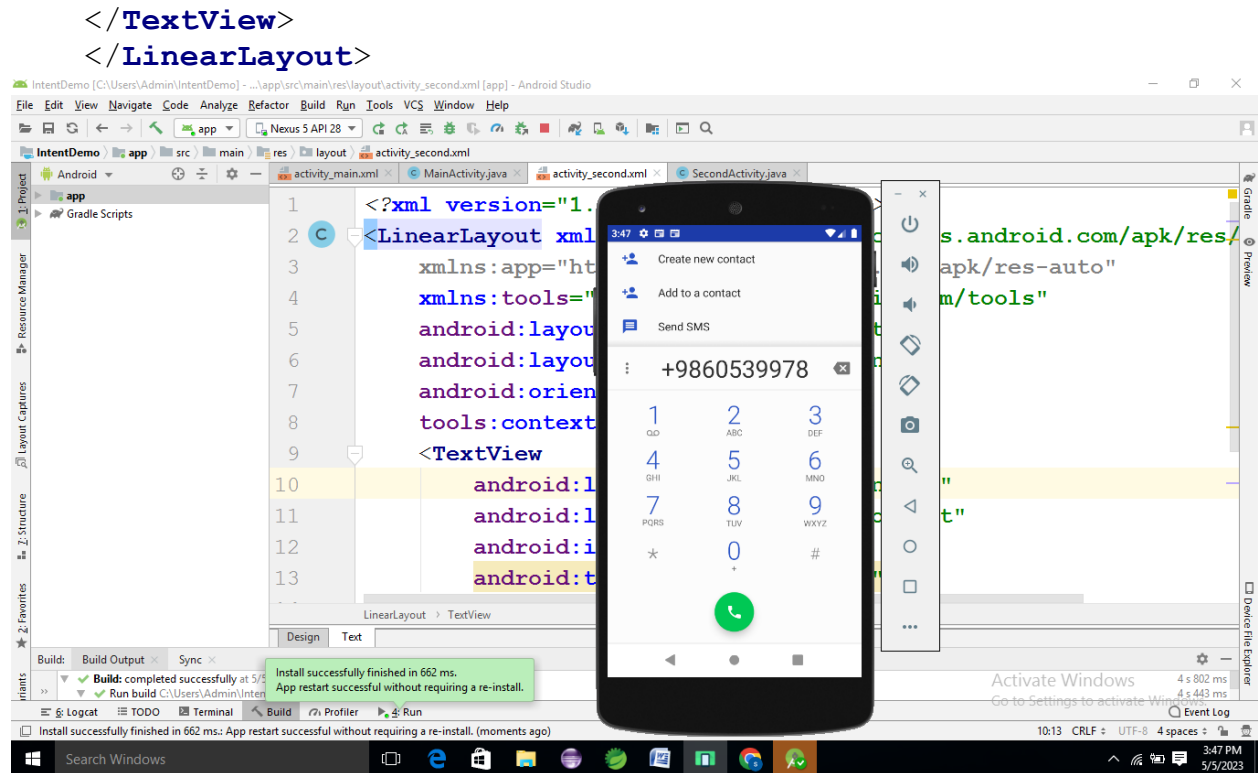
```

```
//activity_second.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"
    android:orientation="vertical"
    tools:context=".SecondActivity">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/text1"
        android:text="Second Activity">

```



slip20_2

Main_activity.xml

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical">
<TextView
    android:id="@+id/textView"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:layout_gravity="center"
    />
</LinearLayout>

```

//MainActivity.java

```

package com.example.listview;

import androidx.appcompat.app.AppCompatActivity;

import android.app.ListActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ArrayAdapter;
import android.widget.ListView;
import android.widget.TextView;
import android.widget.Toast;

public class MainActivity extends ListActivity
{
    // Array of strings...
    //ListView simpleList;
    String countryList[] = {"India", "China",
"australia", "Portugle", "America", "NewZealand"};

    @Override public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        ListView lstview=getListView();
        lstview.setChoiceMode(ListView.CHOICE_MODE_MULTIPLE);
        lstview.setTextFilterEnabled(true);
        setListAdapter(new
ArrayAdapter<String>(this,android.R.layout.simple_list_item_1,countryList));
    }

    @Override
    public void onItemClick(ListView l, View v, int
position, long id) {
        //super.onItemClick(l, v, position, id);
        Toast.makeText(this,"you
select"+countryList[position],Toast.LENGTH_SHORT).show();
    }
}

```

Slip 18_2

MainActivity.java

```
package com.example.notification;

import androidx.appcompat.app.AppCompatActivity;
import androidx.core.app.NotificationCompat;

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;

public class MainActivity extends AppCompatActivity {
    Button button;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        button = findViewById(R.id.button);
        button.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                addNotification();
            }
        });
    }

    private void addNotification() {
        NotificationCompat.Builder builder =
            new NotificationCompat.Builder(this)

        .setSmallIcon(R.drawable.ic_launcher_background) //set icon for
notification
        .setContentTitle("Notifications
Example") //set title of notification
        .setContentText("This is a notification
message")//this is notification message
        .setAutoCancel(true) // makes auto
cancel of notification
    }
}
```

```

.setPriority(NotificationCompat.PRIORITY_DEFAULT); //set
priority of notification

        Intent notificationIntent = new Intent(this,
NotificationView.class);

notificationIntent.addFlags(Intent.FLAG_ACTIVITY_CLEAR_TOP);
        //notification message will get at NotificationView
        notificationIntent.putExtra("message", "This is a
notification message");

        PendingIntent pendingIntent =
PendingIntent.getActivity(this, 0, notificationIntent,
        PendingIntent.FLAG_UPDATE_CURRENT);
        builder.setContentIntent(pendingIntent);

        // Add as notification
        NotificationManager manager = (NotificationManager)
getSystemService(Context.NOTIFICATION_SERVICE);
        manager.notify(0, builder.build());
    }
}

```

main.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"
    android:orientation="vertical"
    tools:context=".MainActivity">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="ANDROID NOTIFICATION"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent"

```

```

        app:layout_constraintVertical_bias="0.091"

        android:textAppearance="@style/Base.TextAppearance.AppCompat.Medium"/>

        <Button
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:id="@+id/button"
            android:layout_marginBottom="112dp"
            android:layout_marginEnd="8dp"
            android:layout_marginStart="8dp"
            android:text="Notify"
            app:layout_constraintBottom_toBottomOf="parent"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintStart_toStartOf="parent" />

    </LinearLayout>

```

Activity_notification_view.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"
    android:orientation="vertical"
    tools:context=".NotificationView">
    <TextView
        android:id="@+id/textView2"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:gravity="center"
        android:text="your detail of notification..."

        android:textAppearance="@style/Base.TextAppearance.AppCompat.Medium" />

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="8dp"

```

```

        android:layout_marginEnd="8dp"
        android:layout_marginStart="8dp"
        android:layout_marginTop="8dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.096"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/textView2"
        app:layout_constraintVertical_bias="0.206"

        android:textAppearance="@style/Base.TextAppearance.AppCompat.Medium"/>

</LinearLayout>

```

//NotificationView.java

```

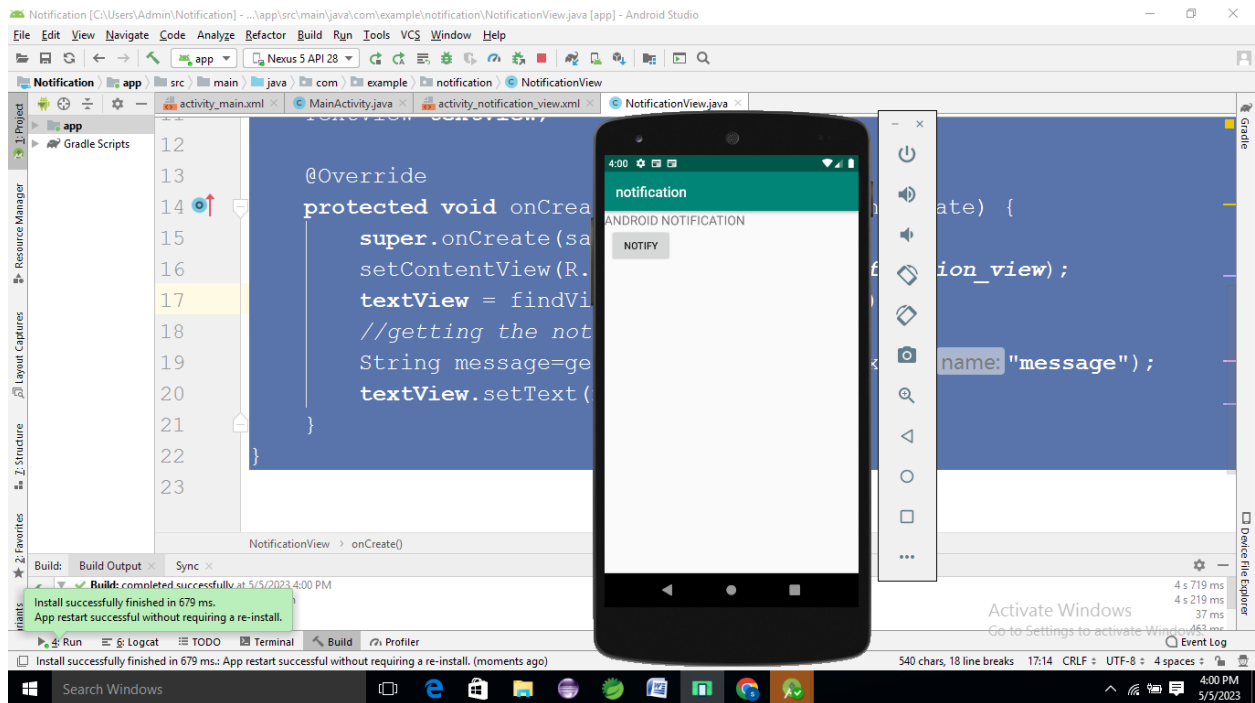
import android.os.Bundle;
import android.view.View;
import android.widget.TextView;

public class NotificationView extends AppCompatActivity {

    TextView textView;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_notification_view);
        textView = findViewById(R.id.text_view);
        //getting the notification message
        String message=getIntent().getStringExtra("message");
        textView.setText(message);
    }
}

```

//Google Map Zoom in ,Zoom-out Program

//MapsActivity.java

```
package com.example.mygps;

import androidx.fragment.app.FragmentActivity;

import android.os.Bundle;
import android.view.KeyEvent;

import com.google.android.gms.maps.CameraUpdateFactory;
import com.google.android.gms.maps.GoogleMap;
import com.google.android.gms.maps.OnMapReadyCallback;
import com.google.android.gms.maps.SupportMapFragment;
import com.google.android.gms.maps.model.LatLng;
import com.google.android.gms.maps.model.MarkerOptions;
```

```

public class MapsActivity<onMapReady> extends
    FragmentActivity implements OnMapReadyCallback {

    private GoogleMap mMap;

    @Override
    protected void onCreate(Bundle savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_maps);
        // Obtain the SupportMapFragment and get
        notified when the map is ready to be used.
        SupportMapFragment mapFragment =
        (SupportMapFragment) getSupportFragmentManager()
            .findFragmentById(R.id.map);
        mapFragment.getMapAsync(this);
    }

    /**
     * Manipulates the map once available.
     * This callback is triggered when the map is ready
     to be used.
     * This is where we can add markers or lines, add
     listeners or move the camera. In this case,
     * we just add a marker near Sydney, Australia.
     * If Google Play services is not installed on the
     device, the user will be prompted to install
     * it inside the SupportMapFragment. This method
     will only be triggered once the user has
     * installed Google Play services and returned to
     the app.
     */
    @Override
    public void onMapReady(GoogleMap googleMap) {
        mMap = googleMap;
    }
}

```

```

        // Add a marker in Sydney and move the camera
        LatLng sydney = new LatLng(21, 78);
        mMap.addMarker(new
MarkerOptions().position(sydney).title("Marker in
Sydney"));

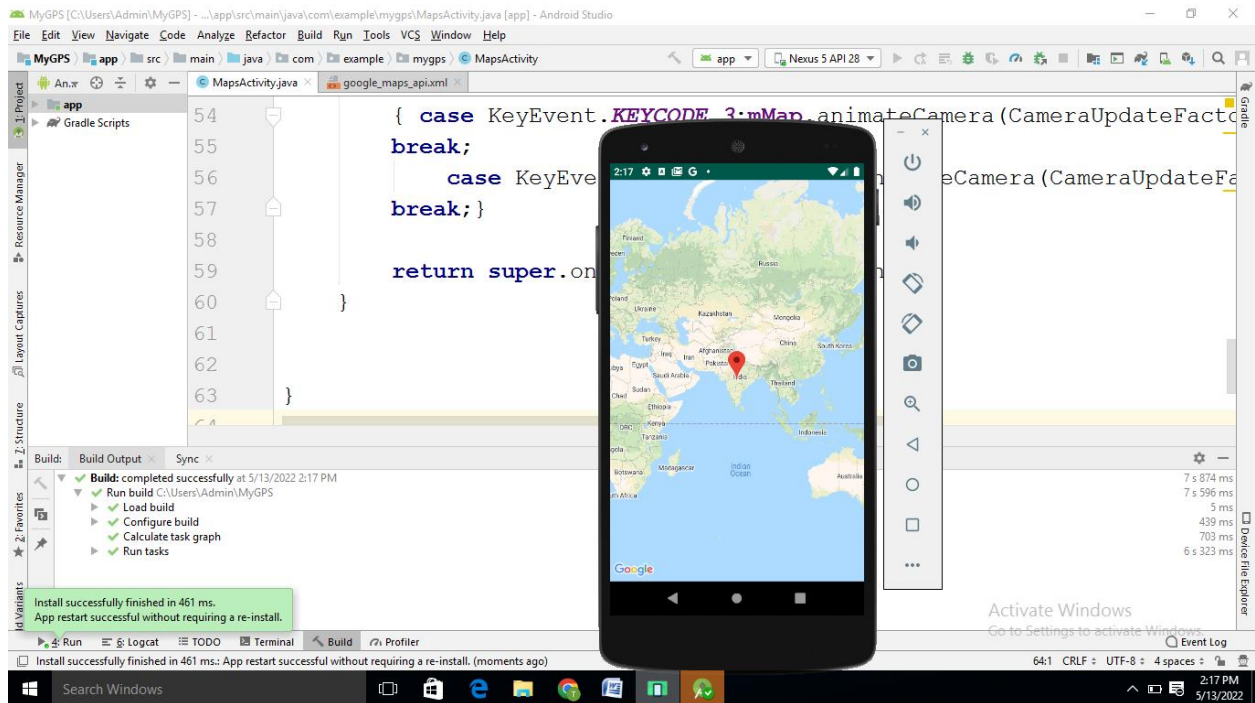
mMap.moveCamera(CameraUpdateFactory.newLatLng(sydney));
    }

    @Override
    public boolean onKeyDown(int keyCode, KeyEvent
event) {
        switch (keyCode)
        { case
KeyEvent.KEYCODE_3:mMap.animateCamera(CameraUpdateFacto
ry.zoomIn());
            break;
            case KeyEvent.KEYCODE_1
:mMap.animateCamera(CameraUpdateFactory.zoomOut());
            break;}

        return super.onKeyDown(keyCode, event);
    }

}

```



// Send EMail

//Activity_main.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/t
ools"
```

```

android:layout_width="match_parent"

android:layout_height="match_parent"
    tools:context=".MainActivity" >

<EditText
    android:id="@+id/editText1"

    android:layout_width="wrap_content"

    android:layout_height="wrap_content"

    android:layout_alignParentRight="true"

    android:layout_alignParentTop="true"

    android:layout_marginRight="22dp"

    android:layout_marginTop="16dp"
        android:ems="10" >
</EditText>

    <EditText
        android:id="@+id/editText2"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

```

```

android:layout_alignLeft="@+id/editText1"

android:layout_below="@+id/editText1"
    android:layout_marginTop="18dp"
    android:ems="10" >

    <requestFocus />
</EditText>

<EditText
    android:id="@+id/editText3"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:layout_alignLeft="@+id/editText2"

android:layout_below="@+id/editText2"

android:layout_marginTop="28dp"
    android:ems="10"

android:inputType="textMultiLine" />

<TextView
    android:id="@+id/textView1"

android:layout_width="wrap_content"

```

```

android:layout_height="wrap_content"

android:layout_alignBaseline="@+id/editText1"

android:layout_alignBottom="@+id/editText1"

android:layout_alignParentLeft="true"
    android:text="To: " />

    <TextView
        android:id="@+id/textView2"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:layout_alignBaseline="@+id/editText2"

android:layout_alignBottom="@+id/editText2"

android:layout_alignParentLeft="true"
    android:text="Subject: " />

    <TextView
        android:id="@+id/textView3"

```

```

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:layout_alignBaseline="@+id/editText3"

android:layout_alignBottom="@+id/editText3"

android:layout_alignParentLeft="true"
        android:text="Message:" />
    <Button
        android:id="@+id/button1"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:layout_alignLeft="@+id/editText3"

android:layout_below="@+id/editText3"

android:layout_marginLeft="76dp"

android:layout_marginTop="20dp"
        android:text="Send" />

</RelativeLayout>

```



```
//MainActivity.java
```

```
package com.example.sendsms;
```

```
import
```

```
androidx.appcompat.app.AppCompatActivity;
```

```
import androidx.core.app.ActivityCompat;
```

```
import
```

```
androidx.core.content.ContextCompat;
```

```
import android.os.Bundle;
```

```
import android.app.Activity;
```

```
import android.content.Intent;
```

```
import android.view.Menu;
```

```
import android.view.View;
```

```
import android.view.View.OnClickListener;
```

```
import android.widget.Button;
```

```
import android.widget.EditText;
```

```
public class MainActivity extends
```

```
AppCompatActivity {
```

```
    EditText editTextTo, editTextSubject,  
editTextMessage;
```

```
    Button send;
```

```

        @Override
        protected void onCreate(Bundle
savedInstanceState) {

    super.onCreate(savedInstanceState);

    setContentView(R.layout.activity_main);

        editTextTo = (EditText)
findViewById(R.id.editText1);
        editTextSubject = (EditText)
findViewById(R.id.editText2);
        editTextMessage = (EditText)
findViewById(R.id.editText3);

        send = (Button)
findViewById(R.id.button1);

        send.setOnClickListener(new
OnClickListener() {

            @Override
            public void onClick(View
arg0) {

                String to =
editTextTo.getText().toString();
                String subject =
editTextSubject.getText().toString();
                String message =

```

```

editTextMessage.getText().toString();

        Intent email = new
Intent(Intent.ACTION_SEND);

email.putExtra(Intent.EXTRA_EMAIL, new
String[]{to});

email.putExtra(Intent.EXTRA_SUBJECT,
subject);

        //need this to prompts
email client only

email.setType("message/rfc822");

startActivity(Intent.createChooser(email,
"Choose an Email client :"));

    }

    });

}
}

```

