

Slip1

Q1 Create a simple application which shows the Life cycle of android

MainActivity.java

```
package com.example.actitvitylifecycle;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.util.Log;

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");
    }
    public void onStart(){
        super.onStart();
        Log.d(tag, "In onStart() event");
    }

    public void onRestart(){
        super.onRestart();
        Log.d(tag, "InonRestart() event");
    }

    public void onResume(){
        super.onResume();
        Log.d(tag, "InonResume() event");
    }

    public void onPause(){
        super.onPause();
        Log.d(tag, "InonPause() event");
    }

    public void onStop(){
        super.onStop();
        Log.d(tag, "InonStop() event");
    }

    public void onDestroy(){
        super.onDestroy();
        Log.d(tag, "InonDestroy() event");
    }
}
```

Q2 Create an android application that demonstrate DatePicker and DatePickerDialog

Xml file

```
<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">

    <Button
        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="500dp"
        android:layout_gravity="center"
        android:text="Select Date"/>

    <TextView
        android:id="@+id/textView"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:textSize="24sp"
        android:layout_gravity="center"/>
</LinearLayout>
```

Java file

```
package com.example.slip1datepickerapplication;

import androidx.appcompat.app.AppCompatActivity;

import android.app.DatePickerDialog;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.DatePicker;
```

```

import android.widget.TextView;

import java.util.Calendar;

public class MainActivity extends AppCompatActivity {
    private Button button;
    private TextView textView;

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

        button.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                DatePickerDialog datePickerDialog = new
                DatePickerDialog(MainActivity.this,
                    new DatePickerDialog.OnDateSetListener() {
                        @Override
                        public void onDateSet(DatePicker view, int year,
int month, int dayOfMonth) {
                            String date = dayOfMonth + "/" + (month + 1)
+ "/" + year;
                            textView.setText(date);
                        }
                    }, Calendar.getInstance().get(Calendar.YEAR),
Calendar.getInstance().get(Calendar.MONTH),
Calendar.getInstance().get(Calendar.DAY_OF_MONTH));
                datePickerDialog.show();
            }
        });
    }
}

```

slip2

Q1.Create an android application which reads a positive number from the user and display its factorial value in another activity

xml file 1

```
<?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/edit_text"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:layout_marginStart="50dp"
        android:layout_marginEnd="50dp"
        android:layout_marginTop="300dp"
        android:hint="Enter any number"/>

    <Button
        android:id="@+id/btn_calculate"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginStart="40dp"
        android:layout_marginEnd="38dp"
        android:layout_marginTop="30dp"
        android:text="Calculate Factorial"/>

</LinearLayout>
```

Java file 1

```
package com.example.slip2factorialapplication;

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 {
    EditText editText;
    Button btnCalculate;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
```

```

        setContentView(R.layout.activity_main);
        editText=findViewById(R.id.edit_text);
        btnCalculate=findViewById(R.id.btn_calculate);
        btnCalculate.setOnClickListener(new View.OnClickListener() {
            Bundle bundle=new Bundle();
            @Override
            public void onClick(View view) {
                int user,fact=1 , i;
                user= Integer.parseInt(editText.getText().toString());

                for(i=1;i<=user;i++)
                {
                    fact=fact*i;

                }
                bundle.putInt("key",fact);
                Intent intent =new
Intent(MainActivity.this,FactorialActivity.class);
                intent.putExtras(bundle);

                startActivity(intent);

            }
        });
    }
}

```

xml file2

```

<?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"
    android:gravity="center"
    tools:context=".FactorialActivity">
    <TextView
        android:id="@+id/text_view_result"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:gravity="center"
        android:text=""/>

</LinearLayout>

```

Java file2

```

package com.example.slip2factorialapplication;

```

```

import androidx.appcompat.app.AppCompatActivity;

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

public class FactorialActivity extends AppCompatActivity {
    TextView textView;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_factorial);
        textView=(TextView) findViewById(R.id.text_view_result);
        Intent intent= getIntent();
        Bundle bundle= intent.getExtras();
        int val =bundle.getInt("key");
        String str =String.valueOf(val);

        textView.setText(str);

    }
}

```

slip3

Q1. Create an Android application that will change color of the collage name on click Name on Click of Push Button and change the font style of text view using xml

Xml file

```

<?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=".ClickButton">

    <TextView
        android:id="@+id/collage_name"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="S.M Joshi Collage"
        android:textSize="30dp"
        android:textStyle="bold"
        android:layout_marginLeft="50dp"
        android:layout_marginRight="50dp"
    >

```

```

        android:textAlignment="center"
        android:layout_marginTop="100dp"/>
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent">
<Button
    android:id="@+id/change_button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="push"
    android:textSize="28dp"
    android:textStyle="bold"
    android:layout_marginLeft="30dp"
    android:layout_marginTop="30dp"
    android:layout_marginRight="30dp" />
</LinearLayout>
</LinearLayout>

```

Java file

```

package com.example.firstandroidproject;

import androidx.appcompat.app.AppCompatActivity;

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

public class ClickButton extends AppCompatActivity {
    TextView collage_name; //variable define here   TextView id name here
    declaration of variable
    Button change_button ;      // define variable i.e means id name of view
    .ie Button id name   must define here

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_click_button);
        collage_name=(TextView) findViewById(R.id.collage_name); // here we
        initialize above variable by typecast collage_name is TextView
        change_button=(Button) findViewById(R.id.change_button);
        // here we applied click event on Button and change name i.e change
        name text
        // so put setListener for all
        change_button.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v){
                //here change collage_name ka text will change
                collage_name.setTextColor(Color.RED);
            }
        });
    }
}

```

```
}  
}
```

Q2.Crea an Android application Ap [p it reads the Student Detail (Name Surname, Class, Gender, Hobbies, Marks)display the all information in another activity in table format on click of submit button

Xml file1

<LinearLayout>

```
<EditText  
android:id="@+id/txtname"  
android:layout_width="match_parent"  
android:layout_height="wrap_content"  
android:layout_marginLeft="30dp"  
android:layout_marginRight="30dp"  
android:hint="Enter Name"  
android:layout_marginTop="20dp"/>
```

```
<EditText  
android:id="@+id/txtsurname"  
android:layout_width="match_parent"  
android:layout_height="wrap_content"  
android:layout_marginLeft="30dp"  
android:layout_marginRight="30dp"  
android:hint="Enter SurName"  
android:layout_marginTop="20dp"/>
```

```
<EditText  
android:id="@+id/txtclass"  
android:layout_width="match_parent"  
android:layout_height="wrap_content"  
android:layout_marginLeft="30dp"  
android:layout_marginRight="30dp"  
android:hint="Enter Classname"  
android:layout_marginTop="20dp"/>
```

```
<EditText  
android:id="@+id/txtGender"  
android:layout_width="match_parent"  
android:layout_height="wrap_content"  
android:layout_marginLeft="30dp"  
android:layout_marginRight="30dp"  
android:hint="Gender"  
android:layout_marginTop="20dp"/>
```

```
<EditText  
android:id="@+id/txthobbies"  
android:layout_width="match_parent"  
android:layout_height="wrap_content"
```



```

android:layout_marginLeft="30dp"
android:layout_marginRight="30dp"
android:hint="Enter Hobbies"
android:layout_marginTop="20dp"/>

<EditText
android:id="@+id/txtmarks"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_marginLeft="30dp"
android:layout_marginRight="30dp"
android:inputType="number"
android:hint="Enter Marks"
android:layout_marginTop="20dp"/>

<Button
android:id="@+id/btnsubmit"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_marginTop="50dp"
android:text="Submit"
android:layout_marginLeft="50dp"
android:layout_marginRight="50dp"/>

```

</LinearLayout>

Java file 1

```

Public class MainActivity extends AppCompatActivity{
EditText txtname, txtsurname, txtclass, txtGender, txthobbies, txtmarks;
Button btnsubmit;
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);

    txtname=(EditText) findViewById(R.id.txtname);
    txtsurname=(EditText) findViewById(R.id.txtsurname);
    txtclass public =(EditText) findViewById(R.id.txtclass);
    txtGender=(EditText) findViewById(R.id.txtGender);
    txthobbies=(EditText) findViewById(R.id.txthobbies);
    txtmarks=(EditText) findViewById(R.id.txtmarks);

    btnsubmit=(Button) findViewById(R.id.btnsubmit);

    btnsubmit.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            String name=txtname.getText().toString().trim();
            String surname=txtsurname.getText().toString().trim();
            String classes=txtclass.getText().toString().trim();
            String Gender=txtGender.getText().toString().trim();
            String hobbies=txthobbies.getText().toString().trim();
            String marks=txtmarks.getText().toString().trim();//fetching data

            Bundle bundle=new Bundle();//bundle import..... variable create

```

```

        //bundle variable use...
bundle.putString("name",name);//key and where stroed name
bundle.putString("surname",surname);
bundle.putString("classes",classes);
bundle.putString("Gender",Gender);
bundle.putString("hobbies",hobbies);
bundle.putString("marks",marks);

//new intent open karnahai
Intent intent=new Intent(MainActivity.this,MainActivity2.class);
intent.putExtras(bundle);
startActivity(intent);
    }
});
}
}

```

Xml file2

<TableLayout>

```

<TableRow
android:layout_marginTop="300dp"
android:layout_marginLeft="40dp"
android:layout_marginRight="40dp">

<TextView
android:id="@+id/txt_name"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginRight="30dp"
android:layout_marginLeft="40dp"
android:text="Hello"
android:textAlignment="center"/>

<TextView
android:id="@+id/txt_surname"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginRight="40dp"
android:layout_marginLeft="40dp"
android:text="Hello"/>
</TableRow>

<TableRow
android:layout_marginTop="30dp"
android:layout_marginLeft="40dp"
android:layout_marginRight="40dp">
<TextView
android:id="@+id/txt_classname"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginRight="40dp"
android:layout_marginLeft="40dp"
android:text="Hello"
/>
<TextView
android:id="@+id/txt_Gender"

```

```

android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginRight="40dp"
android:layout_marginLeft="40dp"
android:text="Hello"/>
</TableRow>

<TableRow
android:layout_marginTop="30dp"
android:layout_marginLeft="40dp"
android:layout_marginRight="40dp">
<TextView
android:id="@+id/txt_hobbies"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginRight="40dp"
android:layout_marginLeft="40dp"
android:text="Hello"/>

<TextView
android:id="@+id/txt_marks"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginRight="40dp"
android:layout_marginLeft="40dp"
android:text="Hello"/>
</TableRow>
</TableLayout>

```

Java file 2

```

TextView txt_name, txt_surname, txt_classname, txt_Gender, txt_hobbies, txt_marks;

```

```

@Override

```

```

protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main2);

```

```

Bundle bundle=getIntent().getExtras();

```

```

txt_name=(TextView) findViewById(R.id.txt_name);
txt_surname=(TextView) findViewById(R.id.txt_surname);
txt_classname=(TextView) findViewById(R.id.txt_classname);
txt_Gender=(TextView) findViewById(R.id.txt_Gender);
txt_hobbies=(TextView) findViewById(R.id.txt_hobbies);
txt_marks=(TextView) findViewById(R.id.txt_marks);

```

```

if( bundle != null)
{
    String name = bundle.getString("name");
    String surname = bundle.getString("surname");
    String classes = bundle.getString("classes");
    String Gender = bundle.getString("Gender");
    String hobbies = bundle.getString("hobbies");
    String marks = bundle.getString("marks");

```

```

txt_name.setText(name);
txt_surname.setText(surname);
txt_classname.setText(classes);
txt_Gender.setText(Gender);
txt_hobbies.setText(hobbies);
txt_marks.setText(marks);

    }
}
}

```

SLIP NO 4

Q1) Create a Simple Application, that performs Arithmetic Operations. (Use constraint layout)

Xml file

```

<?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">

    <TextView
        android:id="@+id/textView"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="120dp"
        android:text="Arithmetic Operator"
        android:textAlignment="center"
        android:textColor="#F60101"
        android:textSize="40dp"
        android:textStyle="bold"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="1.0"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <EditText
        android:id="@+id/fnum"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="16dp"
        android:hint="First Number"
        android:inputType="number"
        android:layout_marginLeft="30dp"
        android:layout_marginRight="30dp"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="1.0"

```

```
app:layout_constraintTop_toBottomOf="@+id/textView"
/>
```

```
<EditText
android:id="@+id/snum"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_marginTop="16dp"
android:hint="Second Number"
android:layout_marginLeft="30dp"
android:layout_marginRight="30dp"
android:inputType="number"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/fnum" />
```

```
<TextView
android:id="@+id/res"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginTop="36dp"
android:text="RESULT"
android:textSize="20dp"
android:textStyle="bold"
app:layout_constraintEnd_toEndOf="@+id/snum"
app:layout_constraintHorizontal_bias="0.097"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/snum" />
```

```
<Button
android:id="@+id/btn1"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginStart="48dp"
android:layout_marginTop="28dp"
android:text="ADDITION"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintHorizontal_bias="0.097"
app:layout_constraintTop_toBottomOf="@+id/res" />
```

```
<Button
android:id="@+id/btn2"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginStart="236dp"
android:layout_marginTop="28dp"
android:text="SUBTRACTION"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintHorizontal_bias="0.097"
app:layout_constraintTop_toBottomOf="@+id/res" />
```

```
<Button
android:id="@+id/btn3"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
```

```

        android:layout_marginTop="100dp"
        android:layout_marginEnd="232dp"
        android:text="MULTIPLICATION"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.097"
        app:layout_constraintTop_toBottomOf="@+id/res" />

        <Button
            android:id="@+id/btn4"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_marginTop="100dp"
            android:layout_marginEnd="64dp"
            android:text="DIVISION"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintHorizontal_bias="0.097"
            app:layout_constraintTop_toBottomOf="@+id/res" />

    </androidx.constraintlayout.widget.ConstraintLayout>

```

Java file

```

public class MainActivity extends AppCompatActivity{
    EditText fnum;
    EditText snum;
    Button btn1;
    Button btn2;
    Button btn3;
    Button btn4;
    TextView res;

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

        btn1=(Button) findViewById(R.id.btn1);
        btn2=(Button) findViewById(R.id.btn2);
        btn3=(Button) findViewById(R.id.btn3);
        btn4=(Button) findViewById(R.id.btn4);
        fnum= (EditText) findViewById(R.id.fnum);
        snum=(EditText) findViewById(R.id.snum);
        res=(TextView) findViewById(R.id.res);

        btn1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                int n1 = Integer.parseInt(fnum.getText().toString());
                int n2 = Integer.parseInt(snum.getText().toString());

                int result = n1+n2;

                res.setText(String.valueOf(result));
            }
        });
    }
}

```

```

        }
    });

    btn2.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            int n1 = Integer.parseInt(fnum.getText().toString());
            int n2 = Integer.parseInt(snum.getText().toString());

            int result = n1-n2;

            res.setText(String.valueOf(result));

        }
    });

    btn3.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            int n1 = Integer.parseInt(fnum.getText().toString());
            int n2 = Integer.parseInt(snum.getText().toString());

            int result = n1*n2;

            res.setText(String.valueOf(result));

        }
    });

    btn4.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            int n1 = Integer.parseInt(fnum.getText().toString());
            int n2 = Integer.parseInt(snum.getText().toString());

            int result = n1/n2;

            res.setText(String.valueOf(result));

        }
    });
}
}

```

Q2. Create an Android Application that sends the Notification on click of the button and displays the notification message on the second activity.

Xml file

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayoutxmlns:android="http://schem

```

```

as.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:id="@+id/textView"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="184dp"
    android:text="NOTIFICATION"
    android:textAlignment="center"
    android:textSize="20dp"
    android:textStyle="bold"
    android:layout_marginRight="40dp"
    android:layout_marginLeft="40dp"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.0"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />

<Button
    android:id="@+id/btn"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="280dp"
    android:text="NOTIFY"
    android:textSize="20dp"
    android:textStyle="bold"
    android:layout_marginRight="40dp"
    android:layout_marginLeft="40dp"
    app:layout_constraintHorizontal_bias="0.0"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/textView"
/>

</androidx.constraintlayout.widget.ConstraintLayout>

```

Java file

```

package com.example.notification;

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

import android.app.Notification;
import android.app.NotificationChannel;
import android.app.NotificationManager;
import android.app.PendingIntent;
import android.content.Intent;
import android.content.pm.PackageManager;

```



```

import android.graphics.Bitmap;
import android.graphics.BitmapFactory;
import android.os.Build;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;

public class MainActivity extends AppCompatActivity implements
View.OnClickListener{

    final String CHANNEL_ID = "Sanju_Ki_Pathshala";
    Button btn;
    NotificationManagerCompat nNotificationCompat;
    NotificationManagerCompat nNotificationManagerCompat;

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

        createNotificationChannel();

        btn= (Button) findViewById(R.id.btn);

        btn.setOnClickListener(this);
        nNotificationManagerCompat=
        NotificationManagerCompat.from(MainActivity.this);

    }

    @Override
    public void onClick(View view) {
        createNotificationManagerCompat(getString(R.string.app_name),
        getString(R.string.title), 1);
    }

    private void createNotificationManagerCompat(String title, String msg, int
notificationId) {
        title = "Notification Done";
        msg = "This is Done Notification";

        nNotificationManagerCompat.cancelAll();

        Bitmap bitmap= BitmapFactory.decodeResource(getResources(),
        R.drawable.baseline_notifications_active_24);

        Intent intent= new Intent(MainActivity.this, Activity2.class);

        PendingIntent pendingIntent= PendingIntent.getActivity(this, 0, intent, 0);

        Notification notification= new NotificationCompat.Builder(this, CHANNEL_ID)
            .setSmallIcon(R.drawable.baseline_notifications_active_24)
            .setContentTitle(title)
            .setContentText(msg)
            .setPriority(NotificationCompat.PRIORITY_DEFAULT)

```

```

        .setContentIntent (pendingIntent)

        .setAutoCancel (true)
        .build();

if (ActivityCompat.checkSelfPermission(this,
android.Manifest.permission.POST_NOTIFICATIONS) !=
PackageManager.PERMISSION_GRANTED) {
    // TODO: Consider calling
    // ActivityCompat#requestPermissions
    // here to request the missing permissions, and then overriding
        // public void onRequestPermissionsResult(int requestCode,
String[] permissions,
        //
        // int[] grantResults)
        // to handle the case where the user grants the permission. See
the documentation
        // for ActivityCompat#requestPermissions for more details.
return;
    }
    nNotificationManagerCompat.notify(notificationId, notification);
}

private void createNotificationChannel(){
if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.P) {
    CharSequence name = "Sanju_Ki_Pathshala";

    String desc= "This is for VIP";

    int imp = NotificationManager.IMPORTANCE_DEFAULT;

    NotificationChannel Channel = new NotificationChannel(CHANNEL_ID,name,imp);

    Channel.setDescription(desc);

    NotificationManager notificationManager=
    getSystemService(NotificationManager.class);
    notificationManager.createNotificationChannel(Channel);
    }
}
}

```

create 2nd activity activity.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=".Activity2">

<TextView
android:id="@+id/txt"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_marginTop="268dp"
android:text="Demo"
android:textAlignment="center"
android:textSize="30dp"
android:textStyle="bold"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintTop_toTopOf="parent"
/>

</androidx.constraintlayout.widget.ConstraintLayout>

```

Java second only create → not write any thing in that

slip5

Q1Create android application to accept two number and find power and Average Display the result on the next activity on Button Click

Xml file 1

```

<?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/num1EditText"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Enter first number"
        android:inputType="numberDecimal"
        android:layout_marginBottom="16dp"/>

```

```

<EditText
    android:id="@+id/num2EditText"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Enter second number"
    android:inputType="numberDecimal"
    android:layout_below="@id/num1EditText"
    android:layout_marginBottom="16dp"/>

<Button
    android:id="@+id/calculateButton"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Calculate"
    android:layout_below="@id/num2EditText"/>

</LinearLayout>

```

Java file 1

```

package com.example.slip5powerapplication;

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 {
    private EditText num1EditText;
    private EditText num2EditText;
    private Button calculateButton;

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

        num1EditText = findViewById(R.id.num1EditText);
        num2EditText = findViewById(R.id.num2EditText);
        calculateButton = findViewById(R.id.calculateButton);

        calculateButton.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                double num1 =
Double.parseDouble(num1EditText.getText().toString());
                double num2 =

```

```

Double.parseDouble(num2EditText.getText().toString());

        double power = Math.pow(num1, num2);
        double average = (num1 + num2) / 2;

        Intent intent = new Intent(MainActivity.this,
ResutlantActivity.class);
        intent.putExtra("power", power);
        intent.putExtra("average", average);
        startActivity(intent);
    }
});
}
}

```

xml file 2

```

<?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=".ResutlantActivity">

    <TextView
        android:id="@+id/powerTextView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Power: "
        android:textSize="20sp"
        android:layout_marginBottom="16dp"/>

    <TextView
        android:id="@+id/averageTextView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Average: "
        android:textSize="20sp"
        android:layout_below="@id/powerTextView"/>

</RelativeLayout>

```

Java file 2

```

package com.example.slip5powerapplication;

import androidx.appcompat.app.AppCompatActivity;

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

```

```

public class ResutlantActivity extends AppCompatActivity {

    private TextView powerTextView;
    private TextView averageTextView;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_resutlant);
        powerTextView = findViewById(R.id.powerTextView);
        averageTextView = findViewById(R.id.averageTextView);

        Intent intent = getIntent();
        double power = intent.getDoubleExtra("power", 0);
        double average = intent.getDoubleExtra("average", 0);

        powerTextView.setText("Power: " + String.valueOf(power));
        averageTextView.setText("Average: " + String.valueOf(average));
    }
}

```

Q2) . Create an Android application that creates a custom Alert Dialog containing Friends Name and onClick of Friend Name Button greet accordingly.

Xml file

```

<?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/getBtn"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginLeft="150dp"
        android:layout_marginTop="200dp"
        android:text="Show Alert" />

</RelativeLayout>

```

Mainactivity.java

```

package com.example.slip5_1;

import androidx.appcompat.app.AppCompatActivity;

```

```
import android.app.AlertDialog;
import android.content.DialogInterface;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.Toast;
```

```
import java.util.ArrayList;
```

```
public class MainActivity extends AppCompatActivity{
    final CharSequence[] Friend = { "Neha", "Shivani", "Mahek", "Sonal" };
    ArrayList<Integer> slist= new ArrayList();
    boolean icount[] = new boolean[Friend.length];
    String msg="";
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        Button btn= (Button)findViewById(R.id.getBtn);
        btn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                AlertDialog.Builder builder = new AlertDialog.Builder(MainActivity.this);
                builder.setTitle("Choose Friends")
                    .setMultiChoiceItems(Friend, icount, new DialogInterface.OnMultiChoiceClickListener() {
                        @Override
                        public void onClick(DialogInterface arg0, int arg1, boolean arg2) {
                            if (arg2) {
                                // If user select a item then add it in selected items
                                slist.add(arg1);
                            } else if (slist.contains(arg1)) {
                                // if the item is already selected then remove it
                                slist.remove(Integer.valueOf(arg1));
                            }
                        }
                    })
                    .setCancelable(false)
                    .setPositiveButton("Yes", new DialogInterface.OnClickListener() {
                        @Override
                        public void onClick(DialogInterface dialog, int which) {
                            msg="";
                            for (int i = 0; i<slist.size(); i++) {
```

```

msg= msg+ "\n" + (i + 1) + " : " + Friend[slist.get(i)];
    }
Toast.makeText(getApplicationContext(), "Total " + slist.size() + " Items Selected.\n" + msg,
Toast.LENGTH_SHORT).show();
    }
    })
    .setNegativeButton("No", new DialogInterface.OnClickListener() {
@Override
public void onClick(DialogInterface dialog, int which) {
Toast.makeText(MainActivity.this, "No Option Selected", Toast.LENGTH_SHORT).show();
    }
    });
//Creating dialog box
AlertDialog dialog = builder.create();
dialog.show();
    }
    });
}
}

```

Slip6 q1 same as slip12 also

Q1 Create a Simple application which send -Hello message from one activity to another with the help of Button (Use Intent)

Xml File 1

```

<?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/edit_text"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_gravity="center"
    android:hint="enter here"
    android:inputType="text"/>
<Button
    android:id="@+id/btn"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Click here"
    android:layout_gravity="center"
    android:layout_marginTop="16dp"/>
</LinearLayout>

```

Java file 1

```

package com.example.slip12hillapplication;

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;

import java.time.temporal.ValueRange;

public class MainActivity extends AppCompatActivity {
    private static String value;
    public static String getValue(){
        return value;
    }

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        final EditText edittext= (EditText)findViewById(R.id.edit_text);
        Button button= (Button)findViewById(R.id.btn);
        button.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                value = edittext.getText().toString().trim();
                Intent intent=new
Intent(MainActivity.this,SecondActivity.class);
                startActivity(intent);
            }
        });
    }
}

```

XML file 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/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:gravity="center"
    tools:context=".SecondActivity">
    <TextView
        android:id="@+id/text_view"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:gravity="center"/>
</LinearLayout>
```

Java file 2

```
package com.example.slip12hillapplication;

import androidx.appcompat.app.AppCompatActivity;

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

public class SecondActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_second);
        TextView textView = findViewById(R.id.text_view);
        textView.setText(MainActivity.getValue());
    }
}
```

Q2 Create Android application that Demonstrate ListView And onClick of list Display the Toast

Xml file 1

```
<?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:id="@+id/message"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:textSize="18sp"
        android:textStyle="bold"
        android:padding="16dp"
        android:text="Click an item to display the selection."/>

    <ListView
        android:id="@+id/list_view"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"/>

</LinearLayout>

```

Java file

```

package com.example.listviewlapplication;

import androidx.appcompat.app.AppCompatActivity;

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

public class MainActivity extends AppCompatActivity {
    private ListView listView;

    private TextView message;

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

        // Get references to the ListView and TextView elements
        listView = findViewById(R.id.list_view);
        // message = findViewById(R.id.message);

        // Create an array of items to display in the ListView
        String[] items = {"Item 1", "Item 2", "Item 3", "Item 4", "Item 5"};

        // Create an ArrayAdapter to map the items to the views
        ArrayAdapter<String> adapter = new ArrayAdapter<String>(this,

```

```

android.R.layout.simple_list_item_1, items);

    // Set the adapter on the ListView to display the items
    listView.setAdapter(adapter);

    // Set an OnItemClickListener to display a message when an item is
    clicked
    listView.setOnItemClickListener(new AdapterView.OnItemClickListener()
    {
        @Override
        public void onItemClick(AdapterView<?> parent, View view, int
position, long id) {
            String selectedItem = (String)
parent.getItemAtPosition(position);
            //message.setText("You selected: " + selectedItem);
            Toast.makeText(MainActivity.this, "You have
selected"+selectedItem, Toast.LENGTH_SHORT).show();

        }
    });
}
}

```

slip7

Q1. Create an Android Application That Demonstrate Radio Button

Xml file

```

<?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">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical"
        android:padding="100dp">

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

```

```

        android:text="Select your gender:"/>

        <RadioGroup
            android:id="@+id/rg"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:orientation="horizontal">
            <RadioButton
                android:id="@+id/rb1"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:text="male"/>

            <RadioButton
                android:id="@+id/rb2"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:text="femal"/>
        </RadioGroup>
        <Button
            android:id="@+id/button"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="submit"/>
    </LinearLayout>

</LinearLayout>

```

javaFile

```

package com.example.radiobuttonslip7application;

import androidx.appcompat.app.AppCompatActivity;

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

public class MainActivity extends AppCompatActivity {
    private RadioGroup radioButtonGender;
    private RadioButton radioButtonSelected;
    private Button buttonSubmit;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        radioButtonGender=findViewById(R.id.rg);
        buttonSubmit=findViewById(R.id.button);

        buttonSubmit.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {

```

```

        int selectedId=radioGroupGender.getCheckedRadioButtonId();
// this method used to return which id selected h
        //here we check
        if(selectedId!=-1){
            Toast.makeText(MainActivity.this, "please select your
gender", Toast.LENGTH_SHORT).show();
        }
        else {
            radioButtonSelected=findViewById(selectedId);
            String
selectedGender=radioButtonSelected.getText().toString();
            Toast.makeText(MainActivity.this, "your gender
is"+selectedGender, Toast.LENGTH_SHORT).show();
        }
    }
});
}
}

```

Q2 Create an Android Application to Demonstrate phone call using implicit Intent

Xml file

```

<?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"
    android:layout_gravity="center"
    tools:context=".MainActivity">
    <EditText
        android:id="@+id/edit_phone"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Phone Number"
        android:layout_marginLeft="30dp"
        android:layout_marginRight="30dp"
        android:inputType="number"
        android:gravity="center" />

    <Button
        android:id="@+id/btn_Dial"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Call"
        android:backgroundTint="#DEDBDB"
        android:layout_marginLeft="50dp"
        android:layout_marginRight="50dp"

```

```
    android:layout_marginTop="20dp"
    android:layout_gravity="center"/>
```

```
</LinearLayout>
```

Java file

```
package com.example.phonecallslip7application;

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;
import android.widget.EditText;

public class MainActivity extends AppCompatActivity {
    Button btnDial;
    EditText edtPhone;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        edtPhone=findViewById(R.id.edit_phone);
        btnDial=findViewById(R.id.btn_Dial);
        btnDial.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                String phoneNumber =edtPhone.getText().toString();
                Intent iDial= new
Intent(Intent.ACTION_DIAL,Uri.fromParts("tel",phoneNumber,null));
                startActivity(iDial);
            }
        });
    }
}
```

Slip8

Q1 create an android application with login Screen. On successful login, give message go to next Activity(Without Using Database and use Table layout)

Xml file 1

```

<?xml version="1.0" encoding="utf-8"?>
<TableLayout
    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">

    <TableRow
        android:layout_width="match_parent"
        android:layout_height="match_parent">
        <TextView
            android:id="@+id/textview"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Username"/>

        <EditText
            android:id="@+id/edittext1"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:ems="10"
            android:inputType="text"/>
        </TableRow>
        <TableRow
            android:layout_width="match_parent"
            android:layout_height="match_parent">
            <TextView
                android:id="@+id/textview2"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:text="Password"/>

            <EditText
                android:id="@+id/edittext2"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:ems="10"
                android:inputType="text"/>

        </TableRow>
        <Button
            android:id="@+id/button1"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="login"/>

        <Button
            android:id="@+id/button2"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="cancle"/>
    </TableLayout>

```

Java1


```

package com.example.myapplication;

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.Toast;

public class MainActivity extends AppCompatActivity implements
View.OnClickListener {
    EditText username;
    EditText password;
    Button login;
    Button cancel;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        username=(EditText) findViewById(R.id.edittext1);
        password=(EditText) findViewById(R.id.edittext2);
        login=(Button) findViewById(R.id.button1);
        cancel=(Button) findViewById(R.id.button2);
        login.setOnClickListener(this);
        cancel.setOnClickListener(this);

    }

    @Override
    public void onClick(View view) {
        String na=username.getText().toString();
        String pa=password.getText().toString();

        switch (view.getId())
        {
            case R.id.button1:
                if (na.equals("chaitu") && pa.equals("admin")) {
                    Intent i=new Intent(this, SecondActivity.class);
                    i.putExtra("c1", na);
                    startActivity(i);
                }
                else
                {
                    Toast.makeText(this, "check #username or
#password", Toast.LENGTH_LONG).show();
                }
                break;

            case R.id.button2:
                username.setText("");
                password.setText("");
        }
    }
}

```

```

        break;

    default:
        break;
    }
}
}

```

xml file 2

```

<?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:orientation="vertical"
    tools:context=".SecondActivity">
    <TextView
        android:id="@+id/text1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerHorizontal="true"
        android:layout_centerVertical="true"
        tools:content=".SecondActivity"/>

    <Button
        android:id="@+id/btn1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"

        android:text="Logout"/>

</RelativeLayout>

```

Javafile 2

```

package com.example.myapplication;

import androidx.appcompat.app.AppCompatActivity;

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

public class SecondActivity extends AppCompatActivity implements
View.OnClickListener {
    Button Logout;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
    }
}

```

```

        setContentView(R.layout.activity_second);
        Intent i=getIntent();
        String str=i.getStringExtra("c1");
        TextView t1=(TextView) findViewById(R.id.text1);
        t1.setText("Logged In Sucessfully!" +str);
        Logout=(Button) findViewById(R.id.btn1);
        Logout.setOnClickListener(this);
    }

    @Override
    public void onClick(View view1) {
        switch (view1.getId())
        {
            case R.id.btn1:
                Intent i=new Intent(this,MainActivity.class);
                startActivity(i);
                finish();
                System.exit(0);
                break;
            default:
                break;
        }
    }
}

```

Q2 Create application to send email with attachment.

Xml file

```

<?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"
    android:padding="10dp"
    tools:context=".MainActivity">

    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="To:"
        android:textAppearance="@style/TextAppearance.AppCompat.Large"/>
    <EditText
        android:id="@+id/edit_text_to"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:inputType="textEmailAddress"/>

    <TextView
        android:layout_width="match_parent"

```

```

        android:layout_height="wrap_content"
        android:text="Subject:"
        android:textAppearance="@style/TextAppearance.AppCompat.Large"/>
<EditText
    android:id="@+id/edit_text_subject"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:inputType="textEmailSubject"/>

<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Message"
    android:textAppearance="@style/TextAppearance.AppCompat.Large"/>
<EditText
    android:id="@+id/edit_text_message"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:lines="10"
    android:gravity="start|top"/>

<Button
    android:id="@+id/button_send"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="send"/>

</LinearLayout>

```

Java file

```

package com.example.emailsendapplication;

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;
import android.widget.EditText;

public class MainActivity extends AppCompatActivity {
    private EditText mEditTextTo;
    private EditText mEditTextSubject;

    private EditText mEditTextMessage;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        mEditTextTo=findViewById(R.id.edit_text_to);
    }
}

```

```

mEditTextSubject=findViewById(R.id.edit_text_subject);
mEditTextMessage=findViewById(R.id.edit_text_message);

Button buttonSend = findViewById(R.id.button_send);

buttonSend.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {

        sendMail();

    }
});

}
private void sendMail(){
    String recipientList=mEditTextTo.getText().toString();
    String[] recipients =recipientList.split(",");
    //example@gmail.com, example2@gmail.com
    String subject =mEditTextSubject.getText().toString();
    String message =mEditTextMessage.getText().toString();

    //here now important part start here
    Intent intent =new Intent(Intent.ACTION_SEND);
    intent.putExtra(Intent.EXTRA_EMAIL, recipients);
    intent.putExtra(Intent.EXTRA_SUBJECT, subject);
    intent.putExtra(Intent.EXTRA_TEXT, message);
    //here email client
    intent.setType("message/rfc822");
    startActivity(Intent.createChooser(intent, "Choose an email client"));

    //this below part for attachment

    // Uri attachmentUri =
    Uri.parse("file:///storage/emulated/0/Download/myfile.pdf");
    // intent.putExtra(Intent.EXTRA_STREAM, attachmentUri);

    //startActivity(Intent.createChooser(intent, "Send email..."));
}
}

```

slip9

Slip-9 Question 1

Write an android application to accept two numbers from the user and display them and reject input if both numbers are greater than 10 and ask for two new numbers.

Xml file

```
<?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:padding="16dp"
android:orientation="vertical"
tools:context=".MainActivity">

<EditText
android:id="@+id/first_number_edittext"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:hint="Enter first number"
android:inputType="number" />

<EditText
android:id="@+id/second_number_edittext"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:hint="Enter second number"
android:inputType="number" />

<Button
android:id="@+id/submit_button"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:text="Submit" />

<TextView
android:id="@+id/result_textview"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:paddingTop="16dp" />
```

```
</LinearLayout>
```

Java file

```
package com.example.slip91;

import androidx.appcompat.app.AppCompatActivity;

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

public class MainActivity extends
AppCompatActivity {

    private EditText firstNumberEditText;
        private EditText secondNumberEditText;
        private Button submitButton;
        private TextView resultTextView;

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

        firstNumberEditText =
findViewById(R.id.first_number_edittext);
        secondNumberEditText =
findViewById(R.id.second_number_edittext);
        submitButton = findViewById(R.id.submit_button);
```

```
resultTextView =  
findViewById(R.id.result_textview);  
  
submitButton.setOnClickListener(new  
View.OnClickListener() {  
    @Override  
    public void onClick(View view) {  
  
        String firstNumberString =  
firstNumberEditText.getText().toString();  
String secondNumberString =  
secondNumberEditText.getText().toString();  
  
        if (firstNumberString.isEmpty()  
|| secondNumberString.isEmpty()) {  
  
Toast.makeText(MainActivity.this, "Please enter  
two numbers", Toast.LENGTH_SHORT).show();  
            return;  
        }  
  
        int firstNumber =  
Integer.parseInt(firstNumberString);  
        int secondNumber =  
Integer.parseInt(secondNumberString);  
  
        if (firstNumber >10 &&  
secondNumber >10) {  
  
Toast.makeText(MainActivity.this, "Both numbers  
cannot be greater than 10",  
Toast.LENGTH_SHORT).show();  
firstNumberEditText.getText().clear();  
secondNumberEditText.getText().clear();  
            return;  
        }  
    }  
}
```



```

}

        String resultString = "First
number: " + firstNumber + "\n" + "Second number:
" + secondNumber;
resultTextView.setText(resultString);
}

    });

}

}

```

Slip10

Q1). Create an Android Application that Demonstrate Switch and Toggle Button

Xml file

Xml file

```

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

```

```

<Switch
android:id="@+id/switchButton"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Switch"
android:checked="false"
android:layout_marginBottom="100dp"
android:layout_centerHorizontal="true"/>

```

```

<ToggleButton
android:id="@+id/toggleButton"

```

```

android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:textOn="On"
android:textOff="Off"
android:checked="false"
android:layout_below="@id/switchButton"
android:layout_centerHorizontal="true"/>

```

```
</RelativeLayout>
```

Java file

```

package com.example.slip10_1;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.widget.CompoundButton;
import android.widget.Switch;
import android.widget.Toast;
import android.widget.ToggleButton;

public class MainActivity extends AppCompatActivity{
    private Switch switchButton;
    private ToggleButton toggleButton;

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

        switchButton= findViewById(R.id.switchButton);
        toggleButton= findViewById(R.id.toggleButton);

        switchButton.setOnCheckedChangeListener(new
        CompoundButton.OnCheckedChangeListener() {
            @Override
            public void onCheckedChanged(CompoundButton buttonView, boolean isChecked) {
                if (isChecked) {
                    // Switch is on
                    Toast.makeText(MainActivity.this, "Switch is on", Toast.LENGTH_SHORT).show();
                } else {
                    // Switch is off
                    Toast.makeText(MainActivity.this, "Switch is off",
                    Toast.LENGTH_SHORT).show();
                }
            }
        });

        toggleButton.setOnCheckedChangeListener(new
        CompoundButton.OnCheckedChangeListener() {
            @Override
            public void onCheckedChanged(CompoundButton buttonView, boolean isChecked) {
                if (isChecked) {
                    // Toggle button is on
                    Toast.makeText(MainActivity.this, "Toggle button is on",
                    Toast.LENGTH_SHORT).show();

```

```

        } else {
// Toggle button is off
Toast.makeText(MainActivity.this, "Toggle button is off",
Toast.LENGTH_SHORT).show();
        }
    }
    });
}
}

```

Q2 Demonstrate Array Adapter using List View to Display list of fruits

Xml file

```

<?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">
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:orientation="vertical">

        <ListView
            android:id="@+id/fruit_list"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"/>
    </LinearLayout>
</LinearLayout>

```

Java file

```

package com.example.slip10application;

import androidx.appcompat.app.AppCompatActivity;

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

```

```

public class MainActivity extends AppCompatActivity {
    String[]
    fruitArray={"Apple","mango","Banana","Blackberry","Pinapple","strawbery"};

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        ArrayAdapter adapter=new ArrayAdapter<String>(this,
        androidx.appcompat.R.layout.support_simple_spinner_dropdown_item,fruitArray);
        ListView listView=(ListView) findViewById(R.id.fruit_list);
        listView.setAdapter(adapter);

    }
}

```

slip11

Q1.Create android application to change Font Size, Color and Font Family of String

Neha

Xml file

```

<?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:layout_alignParentEnd="true"
android:layout_alignParentStart="true"
tools:context=".MainActivity"
android:layout_alignParentRight="true"
android:layout_alignParentLeft="true">

<TextView
android:id="@+id/myTextView"
android:layout_width="wrap_content"
android:layout_height="wrap_content"

```

```
android:text="Hello World!"
android:textSize="20sp"
android:textColor="#000000"
android:typeface="sans"
android:layout_centerInParent="true"/>
```

```
<Button
android:id="@+id/increaseSizeButton"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Increase Size"
android:layout_below="@+id/myTextView"
android:layout_alignParentStart="true"
android:layout_alignParentLeft="true" />
```

```
<Button
android:id="@+id/decreaseSizeButton"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Decrease Size"
android:layout_below="@+id/myTextView"
android:layout_alignParentEnd="true"
android:layout_alignParentRight="true" />
```

```
<Button
android:id="@+id/changeColorButton"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Change Color"
android:layout_below="@+id/increaseSizeButton"
android:layout_alignParentStart="true"
android:layout_alignParentLeft="true" />
```

```
<Button
android:id="@+id/changeFontButton"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Change Font"
android:layout_below="@+id/increaseSizeButton"
android:layout_alignParentEnd="true"
```

```
android:layout_alignParentRight="true" />

</RelativeLayout>
```

Java file

```
package com.example.slip9_1;

import androidx.appcompat.app.AppCompatActivity;

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

public class MainActivity extends AppCompatActivity {

    private TextView textView;
    private Button increaseSizeButton;
    private Button decreaseSizeButton;
    private Button changeColorButton;
    private Button changeFontButton;
    private int fontSize = 20;
    private int textColor = Color.BLACK;
    private String fontFamily = "sans-serif";

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

        textView = findViewById(R.id.myTextView);
        increaseSizeButton =
            findViewById(R.id.increaseSizeButton);
        decreaseSizeButton =
            findViewById(R.id.decreaseSizeButton);
```

```
changeColorButton =  
findViewById(R.id.changeColorButton);  
changeFontButton = findViewById(R.id.changeFontButton);  
  
textView.setTextSize(fontSize);  
textView.setTextColor(textColor);  
textView.setTypeface(Typeface.create(fontFamily,  
Typeface.NORMAL));  
  
increaseSizeButton.setOnClickListener(new  
View.OnClickListener() {  
    @Override  
    public void onClick(View view) {  
  
        fontSize += 2;  
        textView.setTextSize(fontSize);  
    }  
});  
  
decreaseSizeButton.setOnClickListener(new  
View.OnClickListener() {  
    @Override  
    public void onClick(View view) {  
  
        if (fontSize > 2) {  
            fontSize -= 2;  
            textView.setTextSize(fontSize);  
        }  
    }  
});  
  
changeColorButton.setOnClickListener(new  
View.OnClickListener() {  
    @Override  
    public void onClick(View view) {  
        textColor = Color.RED;  
        textView.setTextColor(textColor);  
    }  
});
```

```

changeFontButton.setOnClickListener(new
View.OnClickListener() {

@Override
public void onClick(View view) {

fontFamily = "monospace";
textView.setTypeface(Typeface.create(fontFamily,
Typeface.NORMAL));
}

});
}
}

```

OR mam

```

<?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>

```

Q2. Create android first activity to accept information like student first name middle name, last name date of

birth. Address, Email ID and display all information on Second Activity whenever click on the Submit button
Xml file 1

```
<?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/fname"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:hint="Enter stud first name"
        android:inputType="text"/>
    <EditText
        android:id="@+id/mname"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:hint="Enter stud middle name"
        android:text="stud last name"
        android:inputType="text"/>
    <EditText
        android:id="@+id/lname"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:hint="Enter last name"
        android:inputType="text"/>
    <EditText
        android:id="@+id/birth_date"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:hint="Enter date of birth "
        android:inputType="text"/>

    <EditText
        android:id="@+id/address"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:hint="Enter address"
        android:inputType="text"/>

    <EditText
        android:id="@+id/email_id"
        android:layout_width="match_parent"
```

```

        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:hint="Enter email id"
        android:inputType="text"/>

<Button
    android:id="@+id/button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="next"/>

</LinearLayout>

```

Java file 1

```

package com.example.slip11studapplication;

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 editText1= findViewById(R.id.fname);
        final EditText editText2=findViewById(R.id.mname);
        final EditText editText3=findViewById(R.id.lname);
        final EditText editText4=findViewById(R.id.birth_date);
        final EditText editText5=findViewById(R.id.address);
        final EditText editText6=findViewById(R.id.email_id);

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

        button1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                String name =editText1.getText().toString().trim();
                String releseyr=editText2.getText().toString().trim();
                String collection=editText3.getText().toString().trim();
                String dob=editText4.getText().toString().trim();
                String saddress=editText5.getText().toString().trim();
                String emailid=editText6.getText().toString().trim();
                Bundle bundle =new Bundle();
                bundle.putString("value1",name);
            }
        });
    }
}

```

```

        bundle.putString("value2", releseyr);
        bundle.putString("value3", collection);
        bundle.putString("value4", dob);
        bundle.putString("value5", saddress);
        bundle.putString("value6", emailid);

        Intent intent =new Intent(MainActivity.this,
SecondActivity.class);
        intent.putExtras(bundle);
        startActivity(intent);
    }
});
}
}

```

Xml file2

```

<?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:id="@+id/text_fname"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        />

    <TextView
        android:id="@+id/text_mname"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        />

    <TextView
        android:id="@+id/text_lname"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        />

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

```

```

        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
    />
    <TextView
        android:id="@+id/text_address"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
    />
    <TextView
        android:id="@+id/text_emailid"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
    />

</LinearLayout>

```

Java file 2

```

package com.example.slip11studapplication;

import androidx.appcompat.app.AppCompatActivity;

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

public class SecondActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_second);
        Bundle bundle = getIntent().getExtras();
        if (bundle != null) {
            String value1 = bundle.getString("value1");
            String value2 = bundle.getString("value2");
            String value3 = bundle.getString("value3");
            String value4 = bundle.getString("value4");
            String value5 = bundle.getString("value5");
            String value6 = bundle.getString("value6");

            TextView textView1 = findViewById(R.id.text_fname);
            TextView textView2 = findViewById(R.id.text_mname);
            TextView textView3 = findViewById(R.id.text_lname);
            TextView textView4 = findViewById(R.id.text_birth_date);
            TextView textView5 = findViewById(R.id.text_address);
            TextView textView6 = findViewById(R.id.text_emailid);

            textView1.setText(value1);

```

```

        textView2.setText(value2);
        textView3.setText(value3);
        textView4.setText(value4);
        textView5.setText(value5);
        textView6.setText(value6);
    }
}
}

```

Slip12

Q1 create a simple application which sends -hii message from one activity to another with help of button

Xml file 1

```

<?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/edit_text"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:inputType="text"/>
    <Button
        android:id="@+id/btn"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Click here"
        android:layout_gravity="center"
        android:layout_marginTop="16dp"/>

</LinearLayout>

```

Java file1

```

package com.example.slip12hillapplication;

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;

import java.time.temporal.ValueRange;

public class MainActivity extends AppCompatActivity {
    private static String value;
    public static String getValue() {
        return value;
    }

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        final EditText edittext= (EditText)findViewById(R.id.edit_text);
        Button button= (Button)findViewById(R.id.btn);
        button.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                value = edittext.getText().toString().trim();
                Intent intent=new
Intent(MainActivity.this,SecondActivity.class);
                startActivity(intent);
            }
        });
    }
}

```

xml file 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/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".SecondActivity">
    <TextView
        android:id="@+id/text_view"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center"/>
</LinearLayout>

```

Java file2

```

package com.example.slip12hillapplication;

import androidx.appcompat.app.AppCompatActivity;

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

public class SecondActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_second);
        TextView textView = findViewById(R.id.text_view);
        textView.setText(MainActivity.getValue());
    }
}

```

Slip13

**Q1 Create a following vertical scroll view in android
Xml file**

Here take linear layout and orientation vertical and button gravity remove by default left

Xml file

```

<?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="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center"
    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>

```

Java file → don not do anything in java

```

package com.example.slip13application;

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);
    }
}

```

Slip14

Q1. Create simple application which shows life cycle of Activity.(use log)

Java file

```

package com.example.tybca;
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");
}
}
}

```

Q2 Create An android aaplication to send email

Xml file

```

<?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"
    android:padding="10dp"
    tools:context=".MainActivity">

    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="To:"
        android:textAppearance="@style/TextAppearance.AppCompat.Large"/>
    <EditText
        android:id="@+id/edit_text_to"
        android:layout_width="match_parent"

```

```

        android:layout_height="wrap_content"
        android:inputType="textEmailAddress"/>

<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Subject:"
    android:textAppearance="@style/TextAppearance.AppCompat.Large"/>
<EditText
    android:id="@+id/edit_text_subject"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:inputType="textEmailSubject"/>

<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Message"
    android:textAppearance="@style/TextAppearance.AppCompat.Large"/>
<EditText
    android:id="@+id/edit_text_message"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:lines="10"
    android:gravity="start|top"/>

<Button
    android:id="@+id/button_send"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="send"/>

</LinearLayout>

```

Java file

```

package com.example.emailsendapplication;

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;
import android.widget.EditText;

public class MainActivity extends AppCompatActivity {
    private EditText mEditTextTo;
    private EditText mEditTextSubject;

    private EditText mEditTextMessage;

```

```

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    mEditTextTo=findViewById(R.id.edit_text_to);
    mEditTextSubject=findViewById(R.id.edit_text_subject);
    mEditTextMessage=findViewById(R.id.edit_text_message);

    Button buttonSend = findViewById(R.id.button_send);

    buttonSend.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {

            sendMail();

        }
    });
}

private void sendMail(){
    String recipientList=mEditTextTo.getText().toString();
    String[] recipients =recipientList.split(",");
    //example@gmail.com, example2@gmail.com
    String subject =mEditTextSubject.getText().toString();
    String message =mEditTextMessage.getText().toString();

    //here now important part start here
    Intent intent =new Intent(Intent.ACTION_SEND);
    intent.putExtra(Intent.EXTRA_EMAIL,recipients);
    intent.putExtra(Intent.EXTRA_SUBJECT,subject);
    intent.putExtra(Intent.EXTRA_TEXT,message);
    //here email client
    intent.setType("message/rfc822");
    startActivity(Intent.createChooser(intent,"Choose an email client"));

    //this below part for attachment

    // Uri attachmentUri =
    Uri.parse("file:///storage/emulated/0/Download/myfile.pdf");
    // intent.putExtra(Intent.EXTRA_STREAM, attachmentUri);

    //startActivity(Intent.createChooser(intent, "Send email..."));
}
}

```

slip15

Q1.design following add a border to an AndroidLayout

->Border xml file

Create->go in drawavble->rightclick->drawable resource
file give name-> next->the set this

Border.xml

```
<?xml version="1.0" encoding="utf-8"?>
<shape xmlns:android="http://schemas.android.com/apk/res/android">
<stroke
    android:width="30dp"
    android:color="#ffffff">

</stroke>

</shape>
```

Main xml File

```
<?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:background="@drawable/border"
        android:orientation="vertical">

        <TextView
            android:id="@+id/text1"
            android:layout_width="fill_parent"
            android:layout_height="fill_parent"
            android:background="#A00000FF"
            android:gravity="center_vertical|center_horizontal"
            android:text="Hello World!"
            android:textColor="#ffffff"
            android:textSize="40sp"/>

    </LinearLayout>
</RelativeLayout>
```

Java file in java not wirte code

```

package com.example.slip15bapplication;

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);
    }
}

```

Q2 Create first activity to accept information like Employee First name Middle name Last name, salary, Address ,Email Id and display all information on Second activity where user click on Submit button

Xml file 1

```

<?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/efname"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:hint="Enter employee first name"
        android:inputType="text"/>

    <EditText
        android:id="@+id/emname"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:hint="Enter employee middle name"

```

```

        android:inputType="text"/>

        <EditText
            android:id="@+id/elname"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_gravity="center"
            android:hint="Enter employee last name"
            android:inputType="text"/>
        <EditText
            android:id="@+id/esalary"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_gravity="center"
            android:hint="Enter employee salary"
            android:inputType="text"/>

        <EditText
            android:id="@+id/eaddress"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_gravity="center"
            android:hint="Enter employee address"
            android:inputType="text"/>
        <EditText
            android:id="@+id/email"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_gravity="center"
            android:hint="Enter employee email"
            android:inputType="text"/>

        <Button
            android:id="@+id/button"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="next"/>

    </LinearLayout>

```

Java file 1

```

package com.example.slip15employeeapplication;

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 editText1= findViewById(R.id.efname);
        final EditText editText2=findViewById(R.id.emname);
        final EditText editText3=findViewById(R.id.elname);
        final EditText editText4=findViewById(R.id.esalary);
        final EditText editText5=findViewById(R.id.eaddress);
        final EditText editText6=findViewById(R.id.eemail);
        Button button1=findViewById(R.id.button);

        button1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                String name1 =editText1.getText().toString().trim();
                String name2=editText2.getText().toString().trim();
                String name3=editText3.getText().toString().trim();
                String sal=editText4.getText().toString().trim();
                String add=editText5.getText().toString().trim();
                String email=editText6.getText().toString().trim();

                Bundle bundle =new Bundle();
                bundle.putString("value1",name1);
                bundle.putString("value2",name2);
                bundle.putString("value3",name3);
                bundle.putString("value4",sal);
                bundle.putString("value5",add);
                bundle.putString("value6",email);

                Intent intent =new Intent(MainActivity.this,
SecondActivity.class);
                intent.putExtras(bundle);
                startActivity(intent);
            }
        });
    }
}

```

xml file 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/tools"

```

```

        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:orientation="vertical"
        tools:context=".SecondActivity">

        <TextView
            android:id="@+id/text_efname"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_gravity="center"
            />

        <TextView
            android:id="@+id/text_emname"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_gravity="center"
            />

        <TextView
            android:id="@+id/text_elname"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_gravity="center"
            />

        <TextView
            android:id="@+id/text_esal"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_gravity="center"
            />

        <TextView
            android:id="@+id/text_eadd"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_gravity="center"
            />

        <TextView
            android:id="@+id/text_eemail"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_gravity="center"
            />

    </LinearLayout>

```

Java file 2

```

package com.example.slip15employeeapplication;

import androidx.appcompat.app.AppCompatActivity;

```

```

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

public class SecondActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_second);
        Bundle bundle = getIntent().getExtras();
        if (bundle != null) {
            String value1 = bundle.getString("value1");
            String value2 = bundle.getString("value2");
            String value3 = bundle.getString("value3");
            String value4 = bundle.getString("value4");
            String value5 = bundle.getString("value5");
            String value6 = bundle.getString("value6");

            TextView textView1 = findViewById(R.id.text_efname);
            TextView textView2 = findViewById(R.id.text_emname);
            TextView textView3 = findViewById(R.id.text_elname);
            TextView textView4 = findViewById(R.id.text_esal);
            TextView textView5 = findViewById(R.id.text_eadd);
            TextView textView6 = findViewById(R.id.text_eemail);
            textView1.setText(value1);
            textView2.setText(value2);
            textView3.setText(value3);
            textView4.setText(value4);
            textView5.setText(value5);
            textView6.setText(value6);
        }
    }
}

```

SLIP16

Q1.

Q2. Crea an Android application App [p it reads the Student Detail (Name Surname, Class, Gender, Hobbies, Marks) display the all information in another activity in table format on click of submit button

Xml file1

<LinearLayout>

<EditText

android:id="@+id/txtname"

android:layout_width="match_parent"

android:layout_height="wrap_content"

```
android:layout_marginLeft="30dp"
android:layout_marginRight="30dp"
android:hint="Enter Name"
android:layout_marginTop="20dp"/>
```

```
<EditText
android:id="@+id/txtsurname"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_marginLeft="30dp"
android:layout_marginRight="30dp"
android:hint="Enter SurName"
android:layout_marginTop="20dp"/>
```

```
<EditText
android:id="@+id/txtclass"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_marginLeft="30dp"
android:layout_marginRight="30dp"
android:hint="Enter Classname"
android:layout_marginTop="20dp"/>
```

```
<EditText
android:id="@+id/txtGender"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_marginLeft="30dp"
android:layout_marginRight="30dp"
android:hint="Gender"
android:layout_marginTop="20dp"/>
```

```
<EditText
android:id="@+id/txthobbies"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_marginLeft="30dp"
android:layout_marginRight="30dp"
android:hint="Enter Hobbies"
android:layout_marginTop="20dp"/>
```

```
<EditText
android:id="@+id/txtmarks"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_marginLeft="30dp"
android:layout_marginRight="30dp"
android:inputType="number"
android:hint="Enter Marks"
android:layout_marginTop="20dp"/>
```

```
<Button
android:id="@+id/btnsubmit"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_marginTop="50dp"
```

```

android:text="Submit"
android:layout_marginLeft="50dp"
android:layout_marginRight="50dp"/>

```

</LinearLayout>

Java file 1

```

Public class MainActivity extends AppCompatActivity{
EditText txtname, txtsurname, txtclass, txtGender, txthobbies, txtmarks;
Button btnsubmit;
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);

    txtname=(EditText) findViewById(R.id.txtname);
    txtsurname=(EditText) findViewById(R.id.txtsurname);
    txtclass public =(EditText) findViewById(R.id.txtclass);
    txtGender=(EditText) findViewById(R.id.txtGender);
    txthobbies=(EditText) findViewById(R.id.txthobbies);
    txtmarks=(EditText) findViewById(R.id.txtmarks);

    btnsubmit=(Button) findViewById(R.id.btnsubmit);

    btnsubmit.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            String name=txtname.getText().toString().trim();
            String surname=txtsurname.getText().toString().trim();
            String classes=txtclass.getText().toString().trim();
            String Gender=txtGender.getText().toString().trim();
            String hobbies=txthobbies.getText().toString().trim();
            String marks=txtmarks.getText().toString().trim();//fetching data

            Bundle bundle=new Bundle();//bundle import..... variable careate
                //bundle variable use...
            bundle.putString("name",name);//key and where stroed name
            bundle.putString("surname",surname);
            bundle.putString("classes",classes);
            bundle.putString("Gender",Gender);
            bundle.putString("hobbies",hobbies);
            bundle.putString("marks",marks);

            //new intent open karnahai
            Intent intent=new Intent(MainActivity.this,MainActivity2.class);
            intent.putExtras(bundle);
            startActivity(intent);
        }
    });
}
}

```

Xml file2

<TableLayout>

```

<TableRow
android:layout_marginTop="300dp"
android:layout_marginLeft="40dp"
android:layout_marginRight="40dp">

<TextView
android:id="@+id/txt_name"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginRight="30dp"
android:layout_marginLeft="40dp"
android:text="Hello"
android:textAlignment="center"/>

<TextView
android:id="@+id/txt_surname"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginRight="40dp"
android:layout_marginLeft="40dp"
android:text="Hello"/>
</TableRow>

<TableRow
android:layout_marginTop="30dp"
android:layout_marginLeft="40dp"
android:layout_marginRight="40dp">
<TextView
android:id="@+id/txt_classname"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginRight="40dp"
android:layout_marginLeft="40dp"
android:text="Hello"
/>
<TextView
android:id="@+id/txt_Gender"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginRight="40dp"
android:layout_marginLeft="40dp"
android:text="Hello"/>
</TableRow>

<TableRow
android:layout_marginTop="30dp"
android:layout_marginLeft="40dp"
android:layout_marginRight="40dp">
<TextView
android:id="@+id/txt_hobbies"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginRight="40dp"
android:layout_marginLeft="40dp"
android:text="Hello"/>

<TextView

```

```

android:id="@+id/txt_marks"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginRight="40dp"
android:layout_marginLeft="40dp"
android:text="Hello"/>
</TableRow>
</TableLayout>

```

Java file 2

```

TextView txt_name, txt_surname, txt_classname, txt_Gender, txt_hobbies, txt_marks;

```

```

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main2);

    Bundle bundle = getIntent().getExtras();

    txt_name = (TextView) findViewById(R.id.txt_name);
    txt_surname = (TextView) findViewById(R.id.txt_surname);
    txt_classname = (TextView) findViewById(R.id.txt_classname);
    txt_Gender = (TextView) findViewById(R.id.txt_Gender);
    txt_hobbies = (TextView) findViewById(R.id.txt_hobbies);
    txt_marks = (TextView) findViewById(R.id.txt_marks);

    if (bundle != null)
    {
        String name = bundle.getString("name");
        String surname = bundle.getString("surname");
        String classes = bundle.getString("classes");
        String Gender = bundle.getString("Gender");
        String hobbies = bundle.getString("hobbies");
        String marks = bundle.getString("marks");

        txt_name.setText(name);
        txt_surname.setText(surname);
        txt_classname.setText(classes);
        txt_Gender.setText(Gender);
        txt_hobbies.setText(hobbies);
        txt_marks.setText(marks);

    }
}

```

Q2 .Create an android application that demonstrate TimePicker and display selected time on TextView.

1)Xml file

```
<?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">

<TimePicker
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:id="@+id/timepicker">

</TimePicker>

<TextView
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_centerInParent="true"
android:layout_below="@+id/timepicker"
android:id="@+id/time">

</TextView>

</RelativeLayout>
```

2)Java file

```
package com.example.slip16_2;

import androidx.appcompat.app.AppCompatActivity;

import android.annotation.SuppressLint;
import android.os.Bundle;
```



```

import android.widget.TextView;
import android.widget.TimePicker;

public class MainActivity extends AppCompatActivity {
    TimePicker timePicker;
    TextView textView;
    @SuppressWarnings("MissingInflatedId")
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        timePicker=findViewById(R.id.timepicker);
        textView=findViewById(R.id.time);

        timePicker.setOnTimeChangedListener(new
        TimePicker.OnTimeChangedListener() {
            @Override
            public void onTimeChanged(TimePicker timePicker, int i,
            int i1) {
                textView.setText(i+":"+i1);
            }
        });
    }
}

```

Slip 17

Q1 Write an android code to make phone call using intent

Xml file

```

<?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"
        android:layout_gravity="center"
        tools:context=".MainActivity">
        <EditText
            android:id="@+id/edit_phone"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:hint="Phone Number"
            android:layout_marginLeft="30dp"
            android:layout_marginRight="30dp"
            android:inputType="number"
            android:gravity="center" />

        <Button
            android:id="@+id/btn_Dial"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Call"
            android:backgroundTint="#DEDBDB"
            android:layout_marginLeft="50dp"
            android:layout_marginRight="50dp"
            android:layout_marginTop="20dp"
            android:layout_gravity="center"/>

    </LinearLayout>

```

Java file

```

package com.example.phonecallslip7application;

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;
import android.widget.EditText;

public class MainActivity extends AppCompatActivity {
    Button btnDial;
    EditText edtPhone;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        edtPhone=findViewById(R.id.edit_phone);
    }
}

```

```

        btnDial=findViewById(R.id. btn_Dial);
        btnDial.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                String phoneNumber =edtPhone.getText().toString();
                Intent iDial= new
Intent(Intent.ACTION_DIAL,Uri.fromParts("tel",phoneNumber,null));
                startActivity(iDial);
            }
        });
    }
}

```

Q2 Construct an android Application to accept a number and calculate Factorial and sum of Digit of a give number using Context Menu

Xml File

```

<?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/number_edit_text"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Enter a number" />

    <TextView
        android:id="@+id/factorial_text_view"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Factorial: " />

    <TextView
        android:id="@+id/sum_of_digits_text_view"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Sum of Digits: " />

```

```
</LinearLayout>
```

Java file

```
package com.example.myapplication;

import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.ContextMenu;
import android.view.MenuItem;
import android.view.View;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

    private EditText numberEditText;
    private TextView factorialTextView;
    private TextView sumOfDigitsTextView;

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

        numberEditText = findViewById(R.id.number_edit_text);
        factorialTextView = findViewById(R.id.factorial_text_view);
        sumOfDigitsTextView = findViewById(R.id.sum_of_digits_text_view);

        registerForContextMenu(numberEditText);
    }

    private int factorial(int n) {
        if (n == 0 || n == 1) {
            return 1;
        } else {
            return n * factorial(n - 1);
        }
    }

    private int sumOfDigits(int n) {
        int sum = 0;
        while (n > 0) {
            sum += n % 10;
            n /= 10;
        }
    }
}
```

```

        return sum;
    }

    @Override
    public void onCreateContextMenu(ContextMenu menu, View v,
ContextMenuItem menuInfo) {
        super.onCreateContextMenu(menu, v, menuInfo);
        menu.setHeaderTitle("Choose an operation");
        menu.add(0, 1, 0, "Calculate Factorial");
        menu.add(0, 2, 0, "Calculate Sum of Digits");
        factorialTextView.setText("Factorial: ");
        sumOfDigitsTextView.setText("Sum of Digits: ");
    }

    @Override
    public boolean onContextItemSelected(@NonNull MenuItem item) {
        int number = Integer.parseInt(numberEditText.getText().toString());
        switch (item.getItemId()) {
            case 1:
                int factorialResult = factorial(number);
                factorialTextView.setText("Factorial: " + factorialResult);
                return true;
            case 2:
                int sumResult = sumOfDigits(number);
                sumOfDigitsTextView.setText("Sum of Digits: " + sumResult);
                return true;
            default:
                return super.onContextItemSelected(item);
        }
    }
}

```

// slip18Q1.

//Q1 Create an android Application that Demonstrate Alert Dialog Box

```

<?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:id="@+id/textView"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Hello World!"/>

</LinearLayout>

```

//Java file

```

package com.example.alterdilogboxapplication;

import android.content.DialogInterface;
import android.support.v7.app.AlertDialog;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

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

        //Single button dialog box
        AlertDialog alertDialog=new AlertDialog.Builder(this).create();
        alertDialog.setTitle("Terms & Condition");
        alertDialog.setIcon(R.drawable.baseline_info_24);
        alertDialog.setMessage("Have you read all the term and condition");

        alertDialog.setButton(DialogInterface.BUTTON_POSITIVE, "Yes", new
        DialogInterface.OnClickListener() {
            @Override
            public void onClick(DialogInterface dialogInterface, int
i) {
                Toast.makeText(MainActivity.this, " Yes,You Can
Process now", Toast.LENGTH_SHORT).show();
            }
        });

        alertDialog.show();
    }
}

```

(OR) MAM

XML FILE

```
<?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/btn"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Close app"/>

</RelativeLayout>
```

JAVA FILE

```
package com.example.slip18dialogapplication;

import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;

import android.content.DialogInterface;
import android.os.Bundle;
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.btn);
        builder =new AlertDialog.Builder(this);
        closeButton.setOnClickListener(new View.OnClickListener() {
            @Override
```

```

        public void onClick(View view) {

builder.setMessage(R.string.dialog_message).setTitle(R.string.dialog_title);

        builder .setMessage("Do you want to close this application")
            .setCancelable(false)
            .setPositiveButton("Yes", new
DialogInterface.OnClickListener() {
                @Override
                public void onClick(DialogInterface dialogInterface,
int i) {
                    finish();
                    Toast.makeText(MainActivity.this, "you choose yes
action for alert box", Toast.LENGTH_SHORT).show();

                }
            })
            .setNegativeButton("No", new
DialogInterface.OnClickListener() {
                @Override
                public void onClick(DialogInterface dialogInterface, int
i) {

                    dialogInterface.cancel();

                    Toast.makeText(MainActivity.this, "you choose no
action for alert bo", Toast.LENGTH_SHORT).show();
                }
            });

        AlertDialog alert = builder.create();

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

    }
}
}

```

string file in res->value->string.xml

```

<resources>
    <string name="app_name">Slip18DialogApplication</string>
    <string name="dialog_message">Welcome to Alert Dialog</string>
    <string name="dialog_title">Javapoint Alert Dialog</string>
</resources>

```


Q2Create An android application to accept two number and find power and Average Display the result on the next Activity usin context menu

Xml file 1

```
<?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/number1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:inputType="numberDecimal"
        android:hint="Enter a number"/>

    <EditText
        android:id="@+id/number2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:inputType="numberDecimal"
        android:hint="Enter another number"/>

    <Button
        android:id="@+id/calculate"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Calculate"/>

</LinearLayout>
```

Java file 1

```
package com.example.slip18contextmenuapplication;

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 {
```

```

private EditText number1;
private EditText number2;
private Button calculate;

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    number1 = findViewById(R.id.number1);
    number2 = findViewById(R.id.number2);
    calculate = findViewById(R.id.calculate);
    calculate.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            double num1 =
Double.parseDouble(number1.getText().toString());
            double num2 =
Double.parseDouble(number2.getText().toString());

            double power = Math.pow(num1, num2);
            double average = (num1 + num2) / 2;

            Intent intent = new Intent(MainActivity.this,
SecondActivity.class);
            intent.putExtra("power", power);
            intent.putExtra("average", average);
            startActivity(intent);
        }
    });
}
}

```

xml file 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/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context=".SecondActivity">

    <TextView
        android:id="@+id/result_text"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"/>

```

</LinearLayout>

Java file2

```
package com.example.slip18contextmenuapplication;

import androidx.appcompat.app.AppCompatActivity;

import android.content.ClipData;
import android.content.ClipboardManager;
import android.content.Context;
import android.content.Intent;
import android.os.Bundle;
import android.view.ContextMenu;
import android.view.MenuItem;
import android.view.View;
import android.widget.TextView;
import android.widget.Toast;

public class SecondActivity extends AppCompatActivity {
    private TextView resultText;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_second);
        resultText = findViewById(R.id.result_text);

        double power = getIntent().getDoubleExtra("power", 0);
        double average = getIntent().getDoubleExtra("average", 0);

        String result = "Power: " + power + "\nAverage: " + average;
        resultText.setText(result);

        registerForContextMenu(resultText);
    }

    @Override
    public void onCreateContextMenu(ContextMenu menu, View v,
        ContextMenu.ContextMenuInfo menuInfo) {
        super.onCreateContextMenu(menu, v, menuInfo);
        getMenuInflater().inflate(R.menu.context_menu, menu);
    }

    @Override
    public boolean onContextItemSelected(MenuItem item) {
        switch (item.getItemId()) {
            case R.id.power:
                ClipboardManager clipboard = (ClipboardManager)
                    getSystemService(Context.CLIPBOARD_SERVICE);
```

```

        ClipData clip = ClipData.newPlainText("result",
resultText.getText().toString());
        clipboard.setPrimaryClip(clip);
        Toast.makeText(this, "Result copied to clipboard",
Toast.LENGTH_SHORT).show();
        return true;
    case R.id.average:
        Intent shareIntent = new Intent(Intent.ACTION_SEND);
        shareIntent.setType("text/plain");
        shareIntent.putExtra(Intent.EXTRA_TEXT,
resultText.getText().toString());
        startActivity(Intent.createChooser(shareIntent, "Share
result"));
        return true;
    default:
        return super.onContextItemSelected(item);
    }
}
}

```

**Create menu file in res ->>creat new directori in →
that create context_menu for this → go to res→
directory→layou resource in ok**

```

<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android">
    <item
        android:id="@+id/power"
        android:title="Power"/>
    <item
        android:id="@+id/average"
        android:title="Average"/>
</menu>

```

Slip19

**Q1.Create an android application that on/off the bulb
using Toggle Button**

Xml file

```

<?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">

    <ToggleButton
        android:id="@+id/toggle_button"

```

```

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

```

Java file

```

package com.example.slip19bulbonoffapplication;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.Toast;
import android.widget.ToggleButton;

public class MainActivity extends AppCompatActivity {
    ToggleButton toggleButton;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        toggleButton=(ToggleButton) findViewById(R.id.toggle_button);
        toggleButton.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                if(((ToggleButton)view).isChecked()){
                    Toast.makeText(MainActivity.this, "Bulb is on",
Toast.LENGTH_SHORT).show();
                }else {
                    Toast.makeText(MainActivity.this, "Bilb is off",
Toast.LENGTH_SHORT).show();
                }
            }
        });
    }
}

```

Q2).Create application to send SMS message. After sending message display delivery report of message.

Xml file

```

<?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:id="@+id/textView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"

```

```

android:layout_alignParentTop="true"
android:layout_centerHorizontal="true"
android:textSize="30dp" />

<TextView
android:id="@+id/textView2"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:textSize="30dp"
android:layout_below="@+id/textView1" />

<EditText
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:id="@+id/editText"
android:hint="Enter Phone Number"
android:layout_centerHorizontal="true" />

<EditText
android:id="@+id/editText2"
android:layout_width="wrap_content"
android:layout_height="wrap_content"

android:layout_below="@+id/editText"
android:layout_centerHorizontal="true"
android:hint="Enter SMS" />

<Button
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Send Sms"
android:id="@+id/btnSendSMS"
android:layout_below="@+id/editText2"
android:layout_centerHorizontal="true"
android:layout_marginTop="48dp" />

</RelativeLayout>

```

Main.java

```

public class MainActivity extends AppCompatActivity{

private static final int MY_PERMISSIONS_REQUEST_SEND_MSG = 0;
Button sendBtn;
EditText txtphoneNo;
EditText txtMessage;
String phoneNo;
String message;

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

```

```

sendBtn= (Button) findViewById(R.id.btnSendSMS);
txtphoneNo= (EditText) findViewById(R.id.editText);
txtMessage= (EditText) findViewById(R.id.editText2);

sendBtn.setOnClickListener(new View.OnClickListener() {
    public void onClick(View view) {
        sendSMSMessage();
    }
});

protected void sendSMSMessage() {
    phoneNo= txtphoneNo.getText().toString();
    message = txtMessage.getText().toString();

    if (ContextCompat.checkSelfPermission(this,
        SEND_MSG)
        != PackageManager.PERMISSION_GRANTED) {
        if (ActivityCompat.shouldShowRequestPermissionRationale(this,
            SEND_MSG)) {
        } else {
            ActivityCompat.requestPermissions(this,
                new String[]{Manifest.permission.SEND_MSG},
                MY_PERMISSIONS_REQUEST_SEND_MSG);
        }
    }
}

@Override
public void onRequestPermissionsResult(int requestCode, String permissions[],
    int[] grantResults) {
    super.onRequestPermissionsResult(requestCode, permissions, grantResults);
    switch (requestCode) {
        case MY_PERMISSIONS_REQUEST_SEND_MSG: {
            if (grantResults.length>0
                &&grantResults[0] == PackageManager.PERMISSION_GRANTED) {
                SmsManagersmsManager= SmsManager.getDefault();
                smsManager.sendMessage(phoneNo, null, message, null, null);
                Toast.makeText(getApplicationContext(), "SMS sent.",
                    Toast.LENGTH_LONG).show();
            } else {
                Toast.makeText(getApplicationContext(),
                    "SMS failed, please try again.", Toast.LENGTH_LONG).show();
            }
            return;
        }
    }
}

private class SEND_MSG {
}

```

manefiest file.xml

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:tools="http://schemas.android.com/tools">
<uses-permission android:name="android.permission.SEND_MSG" />

<application

android:allowBackup="true"
android:dataExtractionRules="@xml/data_extraction_rules"
android:fullBackupContent="@xml/backup_rules"
android:icon="@mipmap/ic_launcher"
android:label="@string/app_name"
android:supportsRtl="true"
android:theme="@style/Theme.Slip19_2"
tools:targetApi="31">

<activity
android:name=".MainActivity"
android:exported="true">
<intent-filter>
<action android:name="android.intent.action.MAIN" />

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

</activity>

</application>
</manifest>
```

//slip20

//q1.create Android Program to Change The image on the Screen

Xml file

```
<?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"
    android:gravity="center">
    <Button
        android:id="@+id/changeImageButton"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Click here to change image"
        android:layout_marginBottom="100dp"
        android:gravity="center"/>
    <ImageView
        android:id="@+id/image_view"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:src="@drawable/image1"/>

```

Java file

```

package com.example.sliceapplication;

import androidx.appcompat.app.AppCompatActivity;

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

public class MainActivity extends AppCompatActivity {
    private ImageView i1; //create variable for ImageView
    // private int[]
    //image={R.drawable.image,R.drawable.nature_image,R.drawable.sun_sine_img};
    // private int imageIndex=0; //declare here give private specifier
    //here we create array of images that you want to display in our app. and
    store this images in app resource i.e res->drawable
    int[] image = {R.drawable.image1, R.drawable.image2, R.drawable.image3};
    int imageIndex = 0; // set counter variable equal to 0

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        // here initialize the ImageView variable by findViewById()
        i1 = findViewById(R.id.image_view);
        //here we create array of images that you want to display in our app.
        and store this images in app resource i.e res->drawable
        int[] image = {R.drawable.image1, R.drawable.image2,
R.drawable.image3};

        Button b1 = findViewById(R.id.changeImageButton); //button will
change image
        b1.setOnClickListener(new View.OnClickListener() {
            @Override

```

```

        public void onClick(View view) {

            changeImg();    //here we call changeImg() merhod

        }
    });
}

private void changeImg() {
    imageIndex = (imageIndex + 1) % image.length;
    i1.setImageResource(image[imageIndex]);
}

}

```

(OR) MAM

Xml file

```

<?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">

    <LinearLayout

        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical"
        android:paddingBottom="40px"
        android:weightSum="2">

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

            <RadioButton
                android:id="@+id/rb1"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:text="Image 1"/>

            <RadioButton
                android:id="@+id/rb2"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:text="Image 2"/>

            <RadioButton

```

```

        android:id="@+id/rb3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Image 3"/>

    </RadioGroup>

</LinearLayout>
<ImageView
    android:id="@+id/imageView"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:src="@drawable/image1"/>

</RelativeLayout>

```

Java file

```

package com.example.imageapplication;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.widget.Button;
import android.widget.ImageView;
import android.widget.RadioGroup;

public class MainActivity extends AppCompatActivity implements
RadioGroup.OnCheckedChangeListener {
    RadioGroup group1;

    ImageView img;

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

        group1 = (RadioGroup) findViewById(R.id.rg);

        group1.setOnCheckedChangeListener((RadioGroup.OnCheckedChangeListener) this);
        img = (ImageView) findViewById(R.id.image1);

    }

    @Override
    public void onCheckedChanged(RadioGroup radioGroup, int i) {
        switch (i) {
            case R.id.rb1:
                img.setImageResource(R.drawable.image1);

```

```

        break;

    case R.id.rb2:
        img.setImageResource(R.drawable.image2);
        break;

    case R.id.rb3:
        img.setImageResource(R.drawable.image3);
        break;

    default:
        break;
    }
}
}

```

Q.2. Demonstrate Array Adapter using List View display list of Country XML file

```

<?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=".S20OrQ1MenuActivity">

    <ListView
        android:id="@+id/country_list"
        android:layout_width="match_parent"
        android:layout_height="492dp" />

</LinearLayout>

```

//JAVA File

```

package com.example.sliceapplication;

import androidx.appcompat.app.AppCompatActivity;

```

```

import android.os.Bundle;
import android.widget.AdapterView;
import android.widget.ListView;

import java.util.ArrayList;
// array adapter with list view

public class S20OrQ1MenuActivity extends AppCompatActivity {
    ListView countryListView;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_s20_or_q1_menu);

        //Initialize the ListView
        countryListView=findViewById(R.id.country_list);
        ArrayList<String>country=new ArrayList<>();
        country.add("india");
        country.add("china");
        country.add("America");

        //Creat an array of countires
        ArrayAdapter<String>arrayAdapter=new
ArrayAdapter<>(this,android.R.layout.simple_list_item_1,country);
        // array adapter h vo android ki class hoti h jo ki jo madat kari h
        java ke array adapte karne m ya niki agar android ko java ke array list view
        me dikhane h to usko array Adapter class ka estmal karna padega
        countryListView.setAdapter(arrayAdapter);
    }
}

```