1.Toast Hello World

strings.xml

<resources>

<string name="app\_name">Display a message</string>

<string name="t1">Show</string>

</resources>

activity\_main.xml

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

<LinearLayout

xmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent">

<Button

android:id="@+id/b1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="@string/t1"

android:layout\_marginVertical="150dp"

android:layout\_marginLeft="130dp"

/>

</LinearLayout>

MainActivity.java

package com.example.p1;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity implements View.OnClickListener

{

Button b1;

@Override

protected void onCreate(Bundle savedInstanceState)

{

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

b1=(Button)findViewById(R.id.b1);

b1.setOnClickListener(this);

}

@Override

public void onClick(View v)

{

Toast.makeText(this,"Hello World",Toast.LENGTH\_SHORT).show();

}

}

2. adding two numbers

strings.xml

<resources>

<string name="app\_name">Addition</string>

<string name="l1">Enter the First number</string>

<string name="l2">Enter the Second Number</string>

<string name="l3">Result</string>

<string name="l4">Sum</string>

</resources>

acivity\_main.xml

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

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:tools="http://schemas.android.com/tools"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".MainActivity"

>

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="@string/l1"

android:layout\_marginVertical="30dp"

android:layout\_marginLeft="25dp"

/>

<EditText

android:id="@+id/t1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:ems="10"

android:inputType="number"

android:layout\_marginVertical="60dp"

android:layout\_marginLeft="25dp"

/>

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginVertical="120dp"

android:layout\_marginLeft="25dp"

android:text="@string/l2" />

<EditText

android:id="@+id/t2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:ems="10"

android:inputType="number"

android:layout\_marginVertical="150dp"

android:layout\_marginLeft="25dp"/>

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginVertical="210dp"

android:layout\_marginLeft="25dp"

android:text="@string/l3" />

<EditText

android:id="@+id/t3"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:ems="10"

android:inputType="number"

android:layout\_marginVertical="250dp"

android:layout\_marginLeft="25dp"

/>

<Button

android:id="@+id/b1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginVertical="325dp"

android:layout\_marginLeft="25dp"

android:text="@string/l4" />

</RelativeLayout>

MainActivity.java

package com.example.addition;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.text.Editable;

import android.view.View;

import android.widget.EditText;

import android.widget.Button;

public class MainActivity extends AppCompatActivity implements Button.OnClickListener

{

Button b1;

EditText t1,t2,t3;

@Override

protected void onCreate(Bundle savedInstanceState)

{

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

t1=(EditText)findViewById(R.id.t1);

t2=(EditText)findViewById(R.id.t2);

t3=(EditText)findViewById(R.id.t3);

b1=(Button)findViewById(R.id.b1);

b1.setOnClickListener(this);

}

@Override

public void onClick(View v)

{

int a,b,c;

a=Integer.parseInt(t1.getText().toString());

b=Integer.parseInt(t2.getText().toString());

c=a+b;

t3.setText(c+"");

}

}

3. alert box with OK and Cancel

strings.xml

<resources>

<string name="app\_name">Alert Dialog</string>

<string name="l1">Show Alert</string>

</resources>

activity\_main.xml

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

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent">

<Button

android:id="@+id/b1"

android:text="@string/l1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginVertical="100dp"

android:layout\_marginLeft="100dp"

/>

</RelativeLayout>

MainActitvity.java

package com.example.p3;

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 androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity implements Button.OnClickListener

{

Button b1;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

b1=(Button)findViewById(R.id.b1);

b1.setOnClickListener(this);

}

@Override

public void onClick(View v) {

AlertDialog.Builder bd = new AlertDialog.Builder(this);

bd.setTitle("Alert !!! ");

bd.setMessage("Welcome to Alert Dialog");

bd.setPositiveButton("OK”,null);

bd.setNegativeButton("CANCEL”,null);

AlertDialog alert = bd.create();

alert.show();

}

}

4.Menu with three menu items

strings.xml

<resources>

<string name="app\_name">Implementation of Menu</string>

</resources>

activity\_main.xml

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

<LinearLayout

xmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent">

</LinearLayout>

MainActivity.java

package com.example.p4;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.Menu;

public class MainActivity extends AppCompatActivity

{

@Override

protected void onCreate(Bundle savedInstanceState)

{

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

}

@Override

public boolean onCreateOptionsMenu(Menu menu)

{

menu.add("Format");

menu.add("Clear");

menu.add("Quit");

return true;

}

}

5.Select gender using radio button

strings.xml

<resources>

<string name="app\_name">Radion Button</string>

<string name="l1">Male</string>

<string name="l2">Female</string>

</resources>

activity\_main.xml

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

<RelativeLayout

xmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent">

<RadioGroup

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content">

<RadioButton

android:id="@+id/rb1"

android:text="@string/l1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginLeft="25dp"

android:layout\_marginVertical="25dp"

/>

<RadioButton

android:id="@+id/rb2"

android:text="@string/l2"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginLeft="25dp"

android:layout\_marginVertical="27dp"

/>

</RadioGroup>

</RelativeLayout>

MainActivity.java

package com.example.p5;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.RadioButton;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity implements View.OnClickListener

{

RadioButton rb1,rb2;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

rb1 = (RadioButton) findViewById(R.id.rb1);

rb2 = (RadioButton) findViewById(R.id.rb2);

rb1.setOnClickListener(this);

rb2.setOnClickListener(this);

}

@Override

public void onClick(View v)

{

String s;

if(v.getId()==R.id.rb1)

{

s=rb1.getText().toString();

Toast.makeText(this,s,Toast.LENGTH\_SHORT).show();

}

else if(v.getId()==R.id.rb2)

{

s=rb2.getText().toString();

Toast.makeText(this,s,Toast.LENGTH\_SHORT).show();

}

}

}

6. Spin the four items in a Spinner

strings.xml

<resources>

<string name="app\_name">Spinner</string>

<string name="l1">Fruits</string>

<string-array name="arr">

<item>Apple</item>

<item>Orange</item>

<item>Pineapple</item>

<item>Guva</item>

</string-array>

</resources>

activity\_main.xml

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

<RelativeLayout

xmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent">

<TextView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="@string/l1"

android:layout\_marginLeft="30dp"

android:layout\_marginVertical="50dp"

/>

<Spinner

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:entries="@array/arr"

android:layout\_marginLeft="25dp"

android:layout\_marginVertical="80dp"

/>

</RelativeLayout>

MainActivity.java

package com.example.p6;

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);

}

}

7. check the items listed

strings.xml

<resources>

<string name="app\_name">Check Box</string>

<string name="l1">SSLC</string>

<string name="l2">Plus Two</string>

</resources>

activity\_main.xml

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

<RelativeLayout

xmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent">

<CheckBox

android:id="@+id/c1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginVertical="25dp"

android:layout\_marginLeft="20dp"

android:text="@string/l1"

/>

<CheckBox

android:id="@+id/c2"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="@string/l2"

android:layout\_marginVertical="75dp"

android:layout\_marginLeft="20dp"

/>

</RelativeLayout>

MainActivity.java

package com.example.p7;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.CheckBox;

import android.widget.CompoundButton;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity implements

CompoundButton.OnCheckedChangeListener

{

CheckBox c1,c2;

@Override

protected void onCreate(Bundle savedInstanceState)

{

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

c1=(CheckBox)findViewById(R.id.c1);

c1.setOnCheckedChangeListener(this);

c2=(CheckBox)findViewById(R.id.c2);

c2.setOnCheckedChangeListener(this);

}

@Override

public void onCheckedChanged(CompoundButton buttonView, boolean isChecked)

{

String s;

if(buttonView.getId()== R.id.c1 && isChecked==true)

{

s = c1.getText() + " Selected";

Toast.makeText(this, s, Toast.LENGTH\_SHORT).show();

}

else if(buttonView.getId()== R.id.c1 && isChecked== false)

{

s = c1.getText() + " Unchecked";

Toast.makeText(this, s, Toast.LENGTH\_SHORT).show();

}

if(buttonView.getId()== R.id.c2 && isChecked==true)

{

s = c2.getText() + " Selected";

Toast.makeText(this, s, Toast.LENGTH\_SHORT).show();

}

else if(buttonView.getId()== R.id.c2 && isChecked==false)

{

s = c2.getText() + " Unchecked";

Toast.makeText(this, s, Toast.LENGTH\_SHORT).show();

}

}

}

8.Write a Program to Display images from local drive of the computer (ImageView)

strings.xml

<resources>

<string name="app\_name">Image View</string>

<string name="l1">Show Picture</string>

</resources>

activity\_main.xml

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

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent">

<ImageView

android:id="@+id/imgv"

android:layout\_width="150dp"

android:layout\_height="150dp"

android:layout\_marginLeft="100dp"

android:layout\_marginVertical="20dp"

/>

<Button

android:id="@+id/b1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginLeft="100dp"

android:layout\_marginVertical="200dp"

android:text="@string/l1"

/>

</RelativeLayout>

MainActivity.java

package com.example.myapplication;

import androidx.appcompat.app.AppCompatActivity;

import android.graphics.Bitmap;

import android.graphics.BitmapFactory;

import android.os.Bundle;

import android.os.Environment;

import android.view.View;

import android.widget.Button;

import android.widget.ImageView;

import android.widget.Toast;

import java.io.File;

public class MainActivity extends AppCompatActivity implements View.OnClickListener {

Button b1;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

b1 = (Button) findViewById(R.id.b1);

b1.setOnClickListener(this);

}

@Override

public void onClick(View v) {

File path = Environment.getExternalStoragePublicDirectory(Environment.DIRECTORY\_DCIM);

File file = new File(path+"/Imgdragon.jpg");

if (file.exists()) {

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

Bitmap bitmap = BitmapFactory.decodeFile(file.getAbsolutePath());

img.setImageBitmap(bitmap);

Toast.makeText(this,"Image exists",Toast.LENGTH\_SHORT).show();

}

else

{

Toast.makeText(this, "Image is not exists", Toast.LENGTH\_SHORT).show();

}

}

}

AndroidManifest.xml

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

<manifest xmlns:android="http://schemas.android.com/apk/res/android"

package="com.example.myapplication">

<uses-permission android:name="android.permission.WRITE\_EXTERNAL\_STORAGE" />

<uses-permission android:name="android.permission.READ\_EXTERNAL\_STORAGE" />

<application

android:allowBackup="true"

android:icon="@mipmap/ic\_launcher"

android:label="@string/app\_name"

android:roundIcon="@mipmap/ic\_launcher\_round"

android:supportsRtl="true"

android:theme="@style/Theme.MyApplication">

<activity android:name=".MainActivity">

<intent-filter>

<action android:name="android.intent.action.MAIN" />

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

</intent-filter>

</activity>

</application>

</manifest>

9.Display the items in a list(ListView)

strings.xml

<resources>

<string name="app\_name">List View</string>

<string-array name="arr">

<item>Apple</item>

<item>Orange</item>

<item>Pineapple</item>

<item>Guva</item>

</string-array>

</resources>

activity\_main.xml

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

<RelativeLayout

xmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent">

<ListView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:entries="@array/arr"

android:layout\_marginLeft="25dp"

android:layout\_marginVertical="50dp"

/>

</RelativeLayout>

MainActivity.java

package com.example.p9;

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);

}

}

10. Fetch data from an EditText and display it in a TextView

strings.xml

<resources>

<string name="app\_name">Fetch Data</string>

<string name="l1">Enter the data</string>

<string name="l2">Show</string>

</resources>

activity\_main.xml

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

<RelativeLayout

xmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent">

<TextView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="@string/l1"

android:layout\_marginLeft="25dp"

android:layout\_marginVertical="25dp"

/>

<EditText

android:id="@+id/ed1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginLeft="25dp"

android:layout\_marginVertical="60dp"

/>

<Button

android:id="@+id/b1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="@string/l2"

android:layout\_marginLeft="100dp"

android:layout\_marginVertical="150dp"

/>

<TextView

android:id="@+id/t1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginLeft="25dp"

android:layout\_marginVertical="210dp"

/>

</RelativeLayout>

MainActivity.java

package com.example.p10;

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;

public class MainActivity extends AppCompatActivity implements View.OnClickListener

{

Button b1;

TextView tv1;

EditText ed1;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

tv1=(TextView) findViewById(R.id.t1);

ed1=(EditText) findViewById(R.id.ed1);

b1=(Button)findViewById(R.id.b1);

b1.setOnClickListener(this);

}

@Override

public void onClick(View v)

{

String s;

s=ed1.getText().toString();

tv1.setText("Fetched Data : " +s);

}

}

11. Display multiplication table of a given number

strings.xml

<resources>

<string name="app\_name">Multiplication</string>

<string name="l1">Enter the Number</string>

<string name="l2">Multiplication table</string>

</resources>

activity\_main.xml

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

<RelativeLayout

xmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent">

<TextView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="@string/l1"

android:layout\_marginLeft="25dp"

android:layout\_marginVertical="5dp"

/>

<EditText

android:id="@+id/ed1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginLeft="25dp"

android:layout\_marginVertical="25dp"

/>

<Button

android:id="@+id/b1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="@string/l2"

android:layout\_marginLeft="50dp"

android:layout\_marginVertical="70dp"

/>

<TextView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="@string/l2"

android:layout\_marginLeft="25dp"

android:layout\_marginVertical="120dp"

/>

<TextView

android:id="@+id/t1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginLeft="25dp"

android:layout\_marginVertical="140dp"

/>

</RelativeLayout>

MainActivity.java

package com.example.p11;

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;

public class MainActivity extends AppCompatActivity implements View.OnClickListener

{

Button b1;

TextView tv1;

EditText ed1;

@Override

protected void onCreate(Bundle savedInstanceState)

{

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

tv1=(TextView) findViewById(R.id.t1);

ed1=(EditText) findViewById(R.id.ed1);

b1=(Button)findViewById(R.id.b1);

b1.setOnClickListener(this);

}

@Override

public void onClick(View v)

{

Long n,r;

int i;

String s="";

n=Long.parseLong(ed1.getText().toString());

for(i=1;i<=10;i++)

{

r=n\*i;

s=s+n + "\*" + i + "=" +r+ " \n";

}

tv1.setText(s);

}

}

12.Get IP Address of the device

strings.xml

<resources>

<string name="app\_name">IP Address</string>

<string name="l1"> Get IP Address</string>

</resources>

activity\_main.xml

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

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent">

<Button

android:layout\_marginVertical="150dp"

android:layout\_marginLeft="50dp"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="@string/l1"

android:id="@+id/b1"

/>

</RelativeLayout>

MainActivity.java

package com.example.ipaddress;

import androidx.appcompat.app.AppCompatActivity;

import android.net.wifi.WifiManager;

import android.os.Bundle;

import android.text.format.Formatter;

import android.view.View;

import android.widget.Button;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity implements Button.OnClickListener {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

Button b1=(Button)findViewById(R.id.b1);

b1.setOnClickListener(this);

}

@Override

public void onClick(View v) {

WifiManager wifiManager = (WifiManager)

getApplicationContext().getSystemService(WIFI\_SERVICE);

String ipAddress =

Formatter.formatIpAddress(wifiManager.getConnectionInfo().getIpAddress());

Toast.makeText(this,ipAddress,Toast.LENGTH\_SHORT).show();

}

}

AndroidManifest.xml

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

<manifest xmlns:android="http://schemas.android.com/apk/res/android"

package="com.example.p12">

<uses-permission android:name="android.permission.ACCESS\_WIFI\_STATE"/>

<application

android:allowBackup="true"

android:icon="@mipmap/ic\_launcher"

android:label="@string/app\_name"

android:roundIcon="@mipmap/ic\_launcher\_round"

android:supportsRtl="true"

android:theme="@style/Theme.P12">

<activity android:name=".MainActivity">

<intent-filter>

<action android:name="android.intent.action.MAIN" />

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

</intent-filter>

</activity>

</application>

</manifest>

13.Change the Background colour of the Activity

strings.xml

<resources>

<string name="app\_name">Background Color</string>

<string name="l1">Change</string>

</resources>

activity\_main.xml

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

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:id="@+id/RL1"

>

<Button

android:id="@+id/b1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="@string/l1"

android:layout\_marginLeft="100dp"

android:layout\_marginVertical="150dp"

/>

</RelativeLayout>

MainActivity.java

package com.example.p13;

import androidx.appcompat.app.AppCompatActivity;

import android.graphics.Color;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.RelativeLayout;

public class MainActivity extends AppCompatActivity implements View.OnClickListener

{

Button b1;

RelativeLayout RL1;

@Override

protected void onCreate(Bundle savedInstanceState)

{

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

RL1=(RelativeLayout)findViewById(R.id.RL1);

b1=(Button)findViewById(R.id.b1);

b1.setOnClickListener(this);

}

@Override

public void onClick(View v)

{

RL1.setBackgroundColor(Color.YELLOW);

}

}

14.Implementation of Background Image

strings.xml

<resources>

<string name="app\_name">BackgroundImage</string>

<string name="l1">Image</string>

</resources>

 Copy an image and paste it into drawable resource

activity\_main.xml

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

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"

android:id="@+id/RL1"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent”

>

<Button

android:id="@+id/b1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginVertical="300dp"

android:layout\_marginLeft="150dp"

android:text="@string/l1" />

</RelativeLayout>

MainActivity.java

package com.example.backgroundimage;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.RelativeLayout;

public class MainActivity extends AppCompatActivity implements Button.OnClickListener

{

Button b1;

RelativeLayout r1;

@Override

protected void onCreate(Bundle savedInstanceState)

{

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

r1=(RelativeLayout)findViewById(R.id.RL1);

b1=(Button)findViewById(R.id.b1);

b1.setOnClickListener(this);

}

@Override

public void onClick(View v)

{

r1.setBackgroundResource(R.drawable.leaf);

}

}

15.Start another activity from your own activity using Intent

strings.xml

<resources>

<string name="app\_name">StartActivity</string>

<string name="l1">Start Activity</string>

</resources>

new\_layout.xml

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

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent">

<TextView

android:id="@+id/t1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginVertical="200dp"

android:layout\_marginLeft="100dp"

android:text="Welcome to new layout" />

</RelativeLayout>

activity\_main.xml

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

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent">

<Button

android:id="@+id/b1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginVertical="200dp"

android:layout\_marginLeft="100dp"

android:text="@string/l1" />

</RelativeLayout>

DisplayActivity.java

package com.example.startactivity;

import android.content.Intent;

import android.os.Bundle;

import android.widget.TextView;

import androidx.annotation.Nullable;

import androidx.appcompat.app.AppCompatActivity;

public class DisplayActivity extends AppCompatActivity {

@Override

protected void onCreate(@Nullable Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.new\_layout);

Intent intent = getIntent();

String m = intent.getStringExtra("NAME");

TextView t1 = findViewById(R.id.t1);

t1.setText(m);

}

}

MainActitvity.java

package com.example.startactivity;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

public class MainActivity extends AppCompatActivity implements Button.OnClickListener

{

Button b1;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

b1=(Button)findViewById(R.id.b1);

b1.setOnClickListener(this);

}

@Override

public void onClick(View v) {

Intent i =new Intent(this,DisplayActivity.class);

i.putExtra("NAME","Welcome to Akhil");

startActivity(i);

}

}

AndroidManifest.xml

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

<manifest xmlns:android="http://schemas.android.com/apk/res/android"

package="com.example.startactivity">

<application

android:allowBackup="true"

android:icon="@mipmap/ic\_launcher"

android:label="@string/app\_name"

android:roundIcon="@mipmap/ic\_launcher\_round"

android:supportsRtl="true"

android:theme="@style/AppTheme">

<activity android:name=".MainActivity">

<intent-filter>

<action android:name="android.intent.action.MAIN" />

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

</intent-filter>

</activity>

<activity android:name=".DisplayActivity" />

</application>

</manifest>