**Program No: 01 Date:10-08-2022**

**Aim**: Design a login form with Username and Password using linear layout and toast valid credentials.

**Program Code:**

**activity.xml**

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

<LinearLayout

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

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".MainActivity"

android:orientation="vertical">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Login"

android:textSize="@dimen/cardview\_default\_radius"/>

<EditText

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="username"

android:id="@+id/et1"

/>

<EditText

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="password"

android:id="@+id/et2"

android:layout\_marginTop="10dp"

android:inputType="textPassword"

/>

<Button

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Login"

android:id="@+id/btn"

android:layout\_marginLeft="140dp"

/>

</LinearLayout>

**Mainactivity.java**

package com.example.pgm2

import androidx.appcompat.app.AppCompatActivity;

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 {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.*activity\_main*);

EditText et1=findViewById(R.id.*et1*);

EditText et2=findViewById(R.id.*et2*);

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

button.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

validate(et1.getText().toString(),et2.getText().toString());

}

private void validate(String us,String pw)

{

if(us.equals("admin")&&pw.equals("1234"))

{

Toast.*makeText*(getApplicationContext(),"Login successfull",Toast.*LENGTH\_LONG*).show();

}

else

{

Toast.*makeText*(getApplicationContext(),"Unsuccessfull login",Toast.*LENGTH\_LONG*).show();

}

}

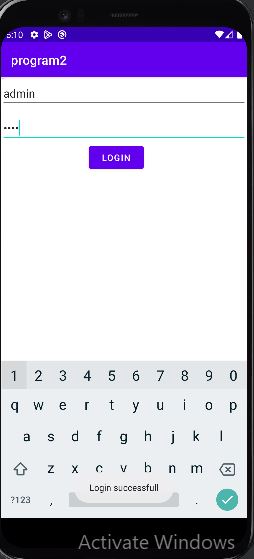
});

}

}

**Result :** Program compiled successfully and output verified.

**Output**



**Program No: 02 Date:16-08-2022**

**Aim**: Write a program to demonstrate the activity life cycle.

**Program Code:**

**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=".MainActivity">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Hello World!"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintLeft\_toLeftOf="parent"

app:layout\_constraintRight\_toRightOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

**Mainactivity.java**

package com.example.myapplication;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.util.Log;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.*activity\_main*);

Log.*d*("lifecycle","onCreate invoked");

}

@Override

protected void onStart() {

super.onStart();

Log.*d*("lifecycle","onStart invoked");

}

@Override

protected void onResume() {

super.onResume();

Log.*d*("lifecycle","onResume invoked");

}

@Override

protected void onPause() {

super.onPause();

Log.*d*("lifecycle","onPause invoked");

}

@Override

protected void onStop() {

super.onStop();

Log.*d*("lifecycle","onStop invoked");

}

@Override

protected void onRestart() {

super.onRestart();

Log.*d*("lifecycle","onRestart invoked");

}

@Override

protected void onDestroy() {

super.onDestroy();

Log.*d*("lifecycle","onDestroy invoked");

}

}

**Result :** Program compiled successfully and output verified.

**Output**



**Program No: 03 Date:19-08-2022**

**Aim**: Implementing basic arithmetic operation of a simple calculator.

**Program Code:**

**Activity\_main.xml**

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

<LinearLayout

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

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".MainActivity"

android:orientation="vertical">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Simple calculator"/>

<TextView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Enter 1st number"/>

<EditText

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:hint="Enter 1st number"

android:id="@+id/n1"/>

<TextView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Enter the 2nd number"/>

<EditText

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:hint="Enter the 2nd number"

android:id="@+id/n2"/>

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:id="@+id/t1"/>

<LinearLayout

android:layout\_width="wrap\_content"

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

<Button

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Add"

android:id="@+id/b1"/>

<Button

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Sub"

android:id="@+id/b2"/>

<Button

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Mul"

android:id="@+id/b3"/>

<Button

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Div"

android:id="@+id/b4"/>

</LinearLayout>

</LinearLayout>

**Mainactivity.java**

package com.example.program4;

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 {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.*activity\_main*);

EditText t1=findViewById(R.id.*n1*);

EditText t2=findViewById(R.id.*n2*);

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

Button sub=findViewById(R.id.*b2*);

Button mul=findViewById(R.id.*b3*);

Button div=findViewById(R.id.*b4*);

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

add.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

Double a1 = Double.*parseDouble*(t1.getText().toString());

Double a2 = Double.*parseDouble*(t2.getText().toString());

Double r = a1 + a2;

tv1.setText("Result is: " + String.*valueOf*(r));

}

});

sub.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

Double s1=Double.*parseDouble*(t1.getText().toString());

Double s2=Double.*parseDouble*(t2.getText().toString());

Double r=s1-s2;

tv1.setText("Result is: "+String.*valueOf*(r));

}

});

mul.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

Double m1 = Double.*parseDouble*(t1.getText().toString());

Double m2 = Double.*parseDouble*(t2.getText().toString());

Double r = m1 \* m2;

tv1.setText("Result is" + String.*valueOf*(r));

}

});

div.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

Double d1=Double.*parseDouble*(t1.getText().toString());

Double d2=Double.*parseDouble*(t2.getText().toString());

Double r=d1/d2;

tv1.setText("Result is" +String.*valueOf*(r));

}

});

}

}

**Result :** Program compiled successfully and output verified.

**Output**

![Graphical user interface, text, application

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDiRXhpZgAATU0AKgAAAAgABAE7AAIAAAAIAAAISodpAAQAAAABAAAIUpydAAEAAAAQAAAQyuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHZhaXNodXMAAAWQAwACAAAAFAAAEKCQBAACAAAAFAAAELSSkQACAAAAAzQzAACSkgACAAAAAzQzAADqHAAHAAAIDAAACJQAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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mVv+3v/wBo0V87w/xUUFo//9k=)

**Program No: 04 Date:23-08-2022**

**Aim**: Implement validation on various UI controls.

**Program Code:**

**activity.xml**

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

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

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

tools:context=".MainActivity">

<TextView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="REGISTRATION"

android:textColor="@color/design\_default\_color\_error"

android:textSize="30dp"/>

<EditText

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="NAME"

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

<EditText

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="MOBILE NUMBER"

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

<EditText

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="AGE"

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

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="GENDER"

android:textSize="20dp"

android:textColor="@color/design\_default\_color\_primary"/>

<RadioGroup

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

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

<RadioButton

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:id="@+id/radiobutton1"

android:text="Male"/>

<RadioButton

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:id="@+id/radiobutton2"

android:text="Female"/>

</RadioGroup>

<Button

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Submit"

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

<CheckBox

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="i agree all terms and conditions"

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

</LinearLayout

**Mainactivity.java**

package com.example.program4;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.CheckBox;

import android.widget.EditText;

import android.widget.RadioButton;

import android.widget.RadioGroup;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

EditText name;

EditText mobileno;

EditText age;

RadioGroup radiogroup;

RadioButton male;

RadioButton female;

CheckBox checkbox;

Button button;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.*activity\_main*);

name=findViewById(R.id.*name*);

mobileno=findViewById(R.id.*mobile*);

age=findViewById(R.id.*age*);

radiogroup=findViewById(R.id.*RG*);

male=findViewById(R.id.*radiobutton1*);

female=findViewById(R.id.*radiobutton2*);

checkbox=findViewById(R.id.*checkbox*);

button=findViewById(R.id.*button*);

button.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

if (error()){

Intent i=new Intent(MainActivity.this,login.class);

startActivity(i);

}

}

});

}

private boolean error(){

if (name.getText().toString().length()==0){

Toast.*makeText*(getApplicationContext(),"Please enter the name",Toast.*LENGTH\_LONG*).show();

return false;

}else if (mobileno.getText().toString().length()==0){

Toast.*makeText*(getApplicationContext(),"please enter mobile number",Toast.*LENGTH\_LONG*).show();

return false;

}

else if (mobileno.getText().toString().length()!=10){

Toast.*makeText*(getApplicationContext(),"please enter 10 numbers",Toast.*LENGTH\_LONG*).show();

return false;

}

else if (!male.isChecked() && !female.isChecked()){

Toast.*makeText*(getApplicationContext(),"please choose radio button",Toast.*LENGTH\_LONG*).show();

return false;

}else if (!checkbox.isChecked()){

Toast.*makeText*(getApplicationContext(),"Please click on checkbox",Toast.*LENGTH\_LONG*).show();

return false;

}else {

return true;

}

}

}

**activity\_login.xml**

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

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

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".login">

<TextView

android:id="@+id/textView"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Welcome to my login page"

tools:layout\_editor\_absoluteX="121dp"

tools:layout\_editor\_absoluteY="194dp" />

</LinearLayout>

**Login.java**

package com.example.program4;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

public class login extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

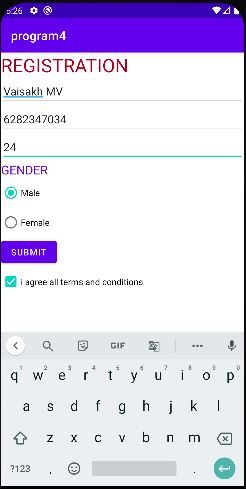
setContentView(R.layout.*activity\_login*);

}

}

**Result :** Program compiled successfully and output verified.

**Output**

 ![Graphical user interface, application

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDiRXhpZgAATU0AKgAAAAgABAE7AAIAAAAIAAAISodpAAQAAAABAAAIUpydAAEAAAAQAAAQyuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHZhaXNodXMAAAWQAwACAAAAFAAAEKCQBAACAAAAFAAAELSSkQACAAAAAzI3AACSkgACAAAAAzI3AADqHAAHAAAIDAAACJQAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAyMDIyOjExOjEzIDIxOjE4OjI4ADIwMjI6MTE6MTMgMjE6MTg6MjgAAAB2AGEAaQBzAGgAdQBzAAAA/+ELGmh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8APD94cGFja2V0IGJlZ2luPSfvu78nIGlkPSdXNU0wTXBDZWhpSHpyZVN6TlRjemtjOWQnPz4NCjx4OnhtcG1ldGEgeG1sbnM6eD0iYWRvYmU6bnM6bWV0YS8iPjxyZGY6UkRGIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczpkYz0iaHR0cDovL3B1cmwub3JnL2RjL2VsZW1lbnRzLzEuMS8iLz48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOnhtcD0iaHR0cDovL25zLmFkb2JlLmNvbS94YXAvMS4wLyI+PHhtcDpDcmVhdGVEYXRlPjIwMjItMTEtMTNUMjE6MTg6MjguMjY3PC94bXA6Q3JlYXRlRGF0ZT48L3JkZjpEZXNjcmlwdGlvbj48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOmRjPSJodHRwOi8vcHVybC5vcmcvZGMvZWxlbWVudHMvMS4xLyI+PGRjOmNyZWF0b3I+PHJkZjpTZXEgeG1sbnM6cmRmPSJodHRwOi8vd3d3LnczLm9yZy8xOTk5LzAyLzIyLXJkZi1zeW50YXgtbnMjIj48cmRmOmxpPnZhaXNodXM8L3JkZjpsaT48L3JkZjpTZXE+DQoJCQk8L2RjOmNyZWF0b3I+PC9yZGY6RGVzY3JpcHRpb24+PC9yZGY6UkRGPjwveDp4bXBtZXRhPg0KICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICA8P3hwYWNrZXQgZW5kPSd3Jz8+/9sAQwAHBQUGBQQHBgUGCAcHCAoRCwoJCQoVDxAMERgVGhkYFRgXGx4nIRsdJR0XGCIuIiUoKSssKxogLzMvKjInKisq/9sAQwEHCAgKCQoUCwsUKhwYHCoqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioq/8AAEQgAvAD8AwEiAAIRAQMRAf/EAB8AAAEFAQEBAQEBAAAAAAAAAAABAgMEBQYHCAkKC//EALUQAAIBAwMCBAMFBQQEAAABfQECAwAEEQUSITFBBhNRYQcicRQygZGhCCNCscEVUtHwJDNicoIJChYXGBkaJSYnKCkqNDU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A8UW1W58RXZfO2OSQ5Hru4/rWj9ij9W/Oq9gd2oX7esuf1atCv1Dh3D01l8Z21k2/xt+h62GpxdJNor/Yo/Vvzo+xR+rfnViivoPY0+x0+zh2K/2KP1b86PsUfq351Yoo9jT7B7OHYr/Yo/Vvzo+xR+rfnViij2NPsHs4div9ij9W/Oj7FH6t+dWKKPY0+wezh2K/2KP1b86PsUfq351Yoo9jT7B7OHYr/Yo/Vvzo+xR+rfnViij2NPsHs4div9ij9W/Oj7FH6t+dWKKPY0+wezh2K/2KP1b86PsUfq351Yoo9jT7B7OHYr/Yo/Vvzo+xR+rfnViij2NPsHs4div9ij9W/Oj7FH6t+dWKKPY0+wezh2K/2KP1b86PsUfq351Yoo9jT7B7OHYr/Yo/Vvzo+xR+rfnViij2NPsHs4div9ij9W/Oj7FH6t+dWKKPY0+wezh2K/2KP1b86PsUfq351Yoo9jT7B7OHYytUsE+wu67i0ZDDp68/pVPTWK2zAH+M/wAhW3ef8eM//XNv5VjabgW7ZGfnPf2FfnnFNGFPEwnHqvyZ5mLgozVi9phzd3p9ZP6mul8L6bDrHizStNuy4gu7uKGQocMFZgDg+vNcxpJzPdn/AGx/Wuj0HVP7D8Rafqnk+f8AYrmOfyt23ftYHGcHGcdcV9Nkqk8ogob2lb1uzsw9/YK3mdVbaD4e1KDS9QXT9RsbOVdQE8BvFkeUW1sJQ6OYwASxIPBGRxjpV7QvCXh/Wn0i0ex1KCXxILqW1ulmBisFieQKgBX98RsBfJXAK4xmuHvPEGs6hMkt/q9/dSIjxo89y7lVcbXUEngEEgjuDTbXXNWstPmsLLVL23s593m20Vw6Rybhg7lBwcgYOeortnhcQ4WjOz9X/et62ut97W2Zo4StozvofA2gjRxbzR3sl/8A8Iw+v/bEnVY9xHyxeXtPyqQPm3Ak59sQXXhrw3Y+I7ixksbj7LpllHd3d3c35WNzKsBQMEhZlUGRhhQzEsOQAcZNj8QbrTfBk2hWNtJG88D2skrXkrxeU+S+2BiVWQ5++OxOACSawINf1i11B7+21a+hvJIxE9xHcusjIAAFLA5IAVePYelY08Ni5Sk5ydtba77a6baXsum9iVCbbuzs9V8L+HfDOuaul5aX2o21nd2MEMX2sQnE8EkjFm8vJwUwBhT6+lN1TwnoE0l1Y6X52mzadrq6XNe6hfI0bxnziZWyqBSPK6A8g45NcTc6rqF7JK95f3Vw8zo8jSzMxdkUqhJJ5KgkA9gSBUc1/eXCzC4up5RcS+fMHkLeZJz87Z6t8zcnn5j61vHCV0k3Ud0l1dtEum3f7y1CXc9M+KNvAnw/8HHT4oIbK3a8giRLqGVmXzFCuTGxVmYJucrkBmIOCQK8sqeW+u57O3tJ7qaS2tt3kQvISkW45bap4XJ5OOtQV0YPDyw1H2bd9W/vbf6lU4uEbBRRRXYWFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAQ3f/AB5T/wDXNv5Vj6aG+zttP8Z/kK2Lv/jyn/65t/KszSU3WrYGfnP8hX57xZ/Gp+j/ADPMxvxI6f4e+CNa8Zyap/YcUUn2Ro/N8yQJjfvxj/vk12v/AAo/xn/z7Wv/AIEipv2dFvGj8TrY+cPOltLeV4Sd0SSC4XzAPVW2NnsAfevbJ7jxHawxLbbpR5jRiaaNskxqigsqo52OwlbgLkbfnXIB8vCZ9i8JRVCmlZd13d+5jDEzhHlR4b/wo/xn/wA+1r/4Eij/AIUf4z/59rX/AMCRXu1tLqtsZooIrgOJbiS3hNufLnZriYkO5HyjaEKnK/ez8/AqeW51NrC5axnvZDHBLJFJLZ7HdwEZUKlBkHJHABPI6jNdP+tGP7R+5/5l/XKnkeBf8KP8Z/8APta/+BIo/wCFH+M/+fa1/wDAkV7vfXfiC3umt7RWljS4ZUuJoj8/yRMgbZG2U3PICQF+4BvB+9b1BtQt9Yu5YJLryXtoAixxeYq/vWErKMH5whBA5z6NjAP9aMf2j9z/AMw+uVPI+ff+FH+M/wDn2tf/AAJFH/Cj/Gf/AD7Wv/gSK+hBJqlxZaavmTwNNdSJLMkK7xCFlMbsGUhSdsZOQOWxgdKpJe699jiZi6PcW8LM0sH+olmDrtAwMhHEfByQrNknjB/rRj+0fuf+YfXKnkeEf8KP8Z/8+1r/AOBIo/4Uf4z/AOfa1/8AAkV79qTXsHiCaWBbiO2kht45biCEyMig3BOwbWydxjB+U4DZ46jM1DV9dECo63EF5NEyrbw25KMfsbSZDYJ3iUEBQ2cKOO5P9aMf2j9z/wAw+uVPI8U/4Uf4z/59rX/wJFH/AAo/xn/z7Wv/AIEivofTJtSOo4vPOeGVro4eIKIhHOFiAIA+8hzyTnaCO+cW01nV7jQYp4mvJjNDbu0psypV2VzIFIjbK5VORG/3uuDlT/WjH9o/c/8AMPrlTyPEv+FH+M/+fa1/8CRR/wAKP8Z/8+1r/wCBIr299b1vbbP5UyXkqZFobRhET9jaTG4jO7zfl27gcLjHUnoNClvJtMD6jzJvIUtu3FfVgY48HOf4RxjrR/rRj+0fuf8AmH1yp5Hzh/wo/wAZ/wDPta/+BIo/4Uf4z/59rX/wJFfUFFH+tGP7R+5/5h9cqeR8v/8ACj/Gf/Pta/8AgSKP+FH+M/8An2tf/AkV9QUUf60Y/tH7n/mH1yp5Hy//AMKP8Z/8+1r/AOBIo/4Uf4z/AOfa1/8AAkV9QUUf60Y/tH7n/mH1yp5Hy/8A8KP8Z/8APta/+BIo/wCFH+M/+fa1/wDAkV9QUUf60Y/tH7n/AJh9cqeR8v8A/Cj/ABn/AM+1r/4Eij/hR/jP/n2tf/AkV9QUUf60Y/tH7n/mH1yp5Hy//wAKP8Z/8+1r/wCBIo/4Uf4z/wCfa1/8CRX1BRR/rRj+0fuf+YfXKnkfL/8Awo/xn/z7Wv8A4Eij/hR/jP8A59rX/wACRX1BRR/rRj+0fuf+YfXKnkfL/wDwo/xn/wA+1r/4Eij/AIUf4z/59rX/AMCRX1BRR/rRj+0fuf8AmH1yp5Hyjrfwd8W6Z4f1C/u7e2EFrayzSlbgEhVQsePoK8z0dgto+T/y0P8AIV9sfEL/AJJj4o/7A93/AOiXr4m0g4tH6f6w9vYV5OPzKvmElKtbTsYVKsqrvI91/ZWOW8W/W0/9r19DV88fsqf8zX9bP/2vX0PXmmQUUUUAFFFFABTHijkeN5I1ZozuRmXJQ4IyPTgkfjT6KACovs0H2r7T5Mf2jZ5fm7Bv25ztz1xnnFS0UAFNijSGJIoUWONFCoiDAUDoAOwp1FAEQtbcXZuhBGLhk2GYIN5XrjPXHtUtFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAc78Qv+SY+KP+wPd/8Aol6+J9I/49H/AOuh/kK+2PiF/wAkx8Uf9ge7/wDRL18T6QM2j/8AXQ/yFAHuX7KX3fFf/bn/AO1q+iK+dv2Ufu+Kv+3P/wBrV9E0wCiiikAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAc78Qv+SY+KP+wPd/+iXr4j0vP2Vuv3z39hX258Qv+SY+KP8AsD3f/ol6+J9H/wCPN/8Arof5CgD3H9lD/V+KvpZ/+1q+ia+dv2UP9X4q+ln/AO1q+iaACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA534hf8kx8Uf8AYHu//RL18RaY5W2Yf7Z7+wr7d+IX/JMfFH/YHu//AES9fDtiD5Df739BQB75+yj/AKvxT9LP/wBrV9EV87/so/6vxT9LP/2tX0RQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHO/EL/kmPij/sD3f/AKJevhi1crGcf3q+5/iF/wAkx8Uf9ge7/wDRL18KwvtQj3oA+g/2UP8AV+KfpZ/+1q+ia+df2TzlPFX0s/8A2tX0VQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHO/EL/kmPij/sD3f/ol6+Djnsa+8fiF/wAkx8Uf9ge7/wDRL18Hcd6YH0T+yf8A6vxV9LP/ANrV9FV86/sn/c8VfSz/APa1fRVIAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAOd+IX/JMfFH/YHu//AES9fB2B3r7x+IX/ACTHxR/2B7v/ANEvXwfQB9Efsn/c8VfSz/8Aa1fRVfOv7J/3PFX0s/8A2tX0VQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHO/EL/kmPij/sD3f/ol6+DwM98V94fEL/kmPij/ALA93/6Jevg8Ju74/CgD6I/ZP+74q+ln/wC1q+iq+df2T/ueKvpZ/wDtavoqgAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAOd+IX/JMfFH/AGB7v/0S1fCSLuXr3r7t+IX/ACTHxR/2B7v/ANEvXwin3euOaAPob9k/7nir6Wf/ALWr6Kr51/ZP+54q+ln/AO1q+iqACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA534hf8kx8Uf8AYHu//RL18Hg4FfeHxD/5Jj4o/wCwPd/+iXr4PTpQM//Z)

**Program No: 05 Date:26-08-2022**

**Aim**: Design a registration activity and store registration details in local memory of phone using intent and shared preferences.

**Program Code:**

**activity.xml**

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

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

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".MainActivity"

tools:ignore="HardcodedText">

<TextView

android:id="@+id/textview"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_centerHorizontal="true"

android:layout\_marginTop="32dp"

android:text="Registration form"

android:textColor="@android:color/black"

android:textSize="24sp"/>

<EditText

android:id="@+id/edit1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_below="@+id/textview"

android:layout\_marginStart="16dp"

android:layout\_marginTop="8dp"

android:layout\_marginEnd="16dp"

android:hint="Enter your name"

android:padding="10dp"/>

<EditText

android:id="@+id/edit2"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_below="@+id/edit1"

android:layout\_marginStart="16dp"

android:layout\_marginTop="8dp"

android:layout\_marginEnd="16dp"

android:hint="Enter your age"

android:padding="10dp"

android:inputType="number"/>

<EditText

android:id="@+id/edit3"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_below="@+id/edit2"

android:layout\_marginStart="16dp"

android:layout\_marginTop="8dp"

android:layout\_marginEnd="16dp"

android:hint="Enter your Email id"

android:padding="10dp"/>

<EditText

android:id="@+id/edit4"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_below="@+id/edit3"

android:layout\_marginStart="16dp"

android:layout\_marginTop="8dp"

android:layout\_marginEnd="16dp"

android:hint="Enter your Address"

android:padding="10dp"/>

<EditText

android:id="@+id/edit5"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_below="@+id/edit4"

android:layout\_marginStart="16dp"

android:layout\_marginTop="8dp"

android:layout\_marginEnd="16dp"

android:hint="Enter your gender"

android:padding="10dp"/>

<EditText

android:id="@+id/edit6"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_below="@+id/edit5"

android:layout\_marginStart="16dp"

android:layout\_marginTop="8dp"

android:layout\_marginEnd="16dp"

android:hint="Enter your Qualification"

android:padding="10dp"/>

<Button

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:id="@+id/b1"

android:layout\_below="@+id/edit6"

android:text="Submit"/>

</RelativeLayout>

**MainActivity.java**

package com.example.myapplication6;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.content.SharedPreferences;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

public class MainActivity extends AppCompatActivity {

private EditText name,age,email,address,gender,quali;

Button b1;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.*activity\_main*);

name=findViewById(R.id.*edit1*);

age=findViewById(R.id.*edit2*);

email=findViewById(R.id.*edit3*);

address=findViewById(R.id.*edit4*);

gender=findViewById(R.id.*edit5*);

quali=findViewById(R.id.*edit6*);

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

b1.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

Intent i=new Intent(MainActivity.this,MainActivity2.class);

startActivity(i);

}

});

}

protected void onResume() {

super.onResume();

SharedPreferences sh = getSharedPreferences("mysharedpref", *MODE\_PRIVATE*);

String s1 = sh.getString("name", "");

int a = sh.getInt("age", 0);

String s2 = sh.getString("email", "");

String s3 = sh.getString("address", "");

String s4 = sh.getString("gender", "");

String s5 = sh.getString("quali", "");

name.setText(s1);

age.setText(String.*valueOf*(a));

email.setText(s2);

address.setText(s3);

gender.setText(s4);

quali.setText(s5);

}

protected void onPause() {

super.onPause();

SharedPreferences sharedPreferences = getSharedPreferences("mysharedpref", *MODE\_PRIVATE*);

SharedPreferences.Editor myEdit = sharedPreferences.edit();

myEdit.putString("name", name.getText().toString());

myEdit.putInt("age", Integer.*parseInt*(age.getText().toString()));

myEdit.putString("email", email.getText().toString());

myEdit.putString("address", address.getText().toString());

myEdit.putString("gender", gender.getText().toString());

myEdit.putString("quali", quali.getText().toString());

myEdit.commit();

}

}

**activity\_main2.xml**

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

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

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".MainActivity2">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Welocome"/>

</RelativeLayout>

**MainActivity2.java**

package com.example.myapplication6;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

public class MainActivity2 extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.*activity\_main2*);

}

}

**Result:** Program compiled successfully and output verified.

**OUTPUT**

![Graphical user interface, text, application, email

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDiRXhpZgAATU0AKgAAAAgABAE7AAIAAAAIAAAISodpAAQAAAABAAAIUpydAAEAAAAQAAAQyuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHZhaXNodXMAAAWQAwACAAAAFAAAEKCQBAACAAAAFAAAELSSkQACAAAAAzY1AACSkgACAAAAAzY1AADqHAAHAAAIDAAACJQAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAyMDIyOjExOjAyIDE3OjMxOjM5ADIwMjI6MTE6MDIgMTc6MzE6MzkAAAB2AGEAaQBzAGgAdQBzAAAA/+ELGmh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8APD94cGFja2V0IGJlZ2luPSfvu78nIGlkPSdXNU0wTXBDZWhpSHpyZVN6TlRjemtjOWQnPz4NCjx4OnhtcG1ldGEgeG1sbnM6eD0iYWRvYmU6bnM6bWV0YS8iPjxyZGY6UkRGIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczpkYz0iaHR0cDovL3B1cmwub3JnL2RjL2VsZW1lbnRzLzEuMS8iLz48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOnhtcD0iaHR0cDovL25zLmFkb2JlLmNvbS94YXAvMS4wLyI+PHhtcDpDcmVhdGVEYXRlPjIwMjItMTEtMDJUMTc6MzE6MzkuNjUwPC94bXA6Q3JlYXRlRGF0ZT48L3JkZjpEZXNjcmlwdGlvbj48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOmRjPSJodHRwOi8vcHVybC5vcmcvZGMvZWxlbWVudHMvMS4xLyI+PGRjOmNyZWF0b3I+PHJkZjpTZXEgeG1sbnM6cmRmPSJodHRwOi8vd3d3LnczLm9yZy8xOTk5LzAyLzIyLXJkZi1zeW50YXgtbnMjIj48cmRmOmxpPnZhaXNodXM8L3JkZjpsaT48L3JkZjpTZXE+DQoJCQk8L2RjOmNyZWF0b3I+PC9yZGY6RGVzY3JpcHRpb24+PC9yZGY6UkRGPjwveDp4bXBtZXRhPg0KICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICA8P3hwYWNrZXQgZW5kPSd3Jz8+/9sAQwAHBQUGBQQHBgUGCAcHCAoRCwoJCQoVDxAMERgVGhkYFRgXGx4nIRsdJR0XGCIuIiUoKSssKxogLzMvKjInKisq/9sAQwEHCAgKCQoUCwsUKhwYHCoqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioq/8AAEQgB8AD7AwEiAAIRAQMRAf/EAB8AAAEFAQEBAQEBAAAAAAAAAAABAgMEBQYHCAkKC//EALUQAAIBAwMCBAMFBQQEAAABfQECAwAEEQUSITFBBhNRYQcicRQygZGhCCNCscEVUtHwJDNicoIJChYXGBkaJSYnKCkqNDU2Nzg5OkNERUZHSElKU1RVVldYWVpjZG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**Program No: 06 Date:30-08-2022**

**Aim**:Design a simple calculator using GridLayout and cascaded Linear Layout

**Program Code:**

**Activity\_main.xml**

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

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

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".MainActivity">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Enter 1st num"

android:layout\_row="0"

android:layout\_column="0"/>

<EditText

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:id="@+id/n1"

android:layout\_row="1"

android:layout\_column="0"/>

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Enter 1st num"

android:layout\_row="2"

android:layout\_column="0"/>

<EditText

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:id="@+id/n2"

android:layout\_row="3"

android:layout\_column="0"/>

<Button

android:text="ADD"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_row="4"

android:layout\_column="2"

android:textColor="@color/white"

android:background="@color/design\_default\_color\_error"

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

<Button

android:text="MUL"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_row="4"

android:layout\_column="1"

android:textColor="@color/white"

android:background="@color/design\_default\_color\_error"

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

<Button

android:text="SUB"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_row="4"

android:layout\_column="0"

android:textColor="@color/white"

android:background="@color/design\_default\_color\_error"

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

<Button

android:text="DIV"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_row="4"

android:layout\_column="3"

android:textColor="@color/white"

android:background="@color/design\_default\_color\_error"

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

<TextView

android:hint="Result"

android:width="70dp"

android:height="50dp"

android:layout\_row="2"

android:layout\_column="2"

android:id="@+id/result"

android:textColor="@color/design\_default\_color\_error"/>

</GridLayout>

**MainActivity.java**

package com.example.myapplication9;

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 {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.*activity\_main*);

EditText a = findViewById(R.id.*n1*);

EditText b = findViewById(R.id.*n2*);

Button add = findViewById(R.id.*add*);

Button mul = findViewById(R.id.*mul*);

Button sub = findViewById(R.id.*sub*);

Button div = findViewById(R.id.*div*);

TextView result = findViewById(R.id.*result*);

add.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

Double n1 = Double.*parseDouble*(a.getText().toString());

Double n2 = Double.*parseDouble*(b.getText().toString());

Double r = n1 + n2;

result.setText(String.*valueOf*(r));

}

});

sub.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

Double n1 = Double.*parseDouble*(a.getText().toString());

Double n2 = Double.*parseDouble*(b.getText().toString());

Double r = n1 - n2;

result.setText(String.*valueOf*(r));

}

});

mul.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

Double n1 = Double.*parseDouble*(a.getText().toString());

Double n2 = Double.*parseDouble*(b.getText().toString());

Double r = n1 \* n2;

result.setText(String.*valueOf*(r));

}

});

div.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

Double n1 = Double.*parseDouble*(a.getText().toString());

Double n2 = Double.*parseDouble*(b.getText().toString());

Double r = n1 / n2;

result.setText(String.*valueOf*(r));

}

});

}

}

**Result:** Program compiled successfully and output verified.

**OUTPUT**

![Graphical user interface, application

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDiRXhpZgAATU0AKgAAAAgABAE7AAIAAAAIAAAISodpAAQAAAABAAAIUpydAAEAAAAQAAAQyuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHZhaXNodXMAAAWQAwACAAAAFAAAEKCQBAACAAAAFAAAELSSkQACAAAAAzc4AACSkgACAAAAAzc4AADqHAAHAAAIDAAACJQAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAyMDIyOjExOjAyIDE3OjUyOjEyADIwMjI6MTE6MDIgMTc6NTI6MTIAAAB2AGEAaQBzAGgAdQBzAAAA/+ELGmh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8APD94cGFja2V0IGJlZ2luPSfvu78nIGlkPSdXNU0wTXBDZWhpSHpyZVN6TlRjemtjOWQnPz4NCjx4OnhtcG1ldGEgeG1sbnM6eD0iYWRvYmU6bnM6bWV0YS8iPjxyZGY6UkRGIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczpkYz0iaHR0cDovL3B1cmwub3JnL2RjL2VsZW1lbnRzLzEuMS8iLz48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOnhtcD0iaHR0cDovL25zLmFkb2JlLmNvbS94YXAvMS4wLyI+PHhtcDpDcmVhdGVEYXRlPjIwMjItMTEtMDJUMTc6NTI6MTIuNzc3PC94bXA6Q3JlYXRlRGF0ZT48L3JkZjpEZXNjcmlwdGlvbj48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOmRjPSJodHRwOi8vcHVybC5vcmcvZGMvZWxlbWVudHMvMS4xLyI+PGRjOmNyZWF0b3I+PHJkZjpTZXEgeG1sbnM6cmRmPSJodHRwOi8vd3d3LnczLm9yZy8xOTk5LzAyLzIyLXJkZi1zeW50YXgtbnMjIj48cmRmOmxpPnZhaXNodXM8L3JkZjpsaT48L3JkZjpTZXE+DQoJCQk8L2RjOmNyZWF0b3I+PC9yZGY6RGVzY3JpcHRpb24+PC9yZGY6UkRGPjwveDp4bXBtZXRhPg0KICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICA8P3hwYWNrZXQgZW5kPSd3Jz8+/9sAQwAHBQUGBQQHBgUGCAcHCAoRCwoJCQoVDxAMERgVGhkYFRgXGx4nIRsdJR0XGCIuIiUoKSssKxogLzMvKjInKisq/9sAQwEHCAgKCQoUCwsUKhwYHCoqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioq/8AAEQgB6QD1AwEiAAIRAQMRAf/EAB8AAAEFAQEBAQEBAAAAAAAAAAABAgMEBQYHCAkKC//EALUQAAIBAwMCBAMFBQQEAAABfQECAwAEEQUSITFBBhNRYQcicRQygZGhCCNCscEVUtHwJDNicoIJChYXGBkaJSYnKCkqNDU2Nzg5OkNERUZHSElKU1RVVldYWVpjZG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fDb/oZP/JG5/8AjdH/AAvr4bf9DJ/5I3P/AMbr4zoouFj7M/4X18Nv+hk/8kbn/wCN0f8AC+vht/0Mn/kjc/8AxuvjOii4WPsz/hfXw2/6GT/yRuf/AI3R/wAL6+G3/Qyf+SNz/wDG6+M6KLhY7r4r6/pvif4natq+h3P2qwufJ8qbYybtsKKeGAI5UjkdqK4yL/ViikUf/9k=)

**Program No:07 Date:02-09-2022**

**Aim**: Create a facebook page using Relative Layout ; set properties using .xml file

**Program Code:**

**Activity\_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:id="@+id/activity\_main"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".MainActivity">

<RelativeLayout

android:id="@+id/relativelayout"

android:layout\_width="match\_parent"

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

<ImageView

android:layout\_width="match\_parent"

android:layout\_height="250dp"

android:id="@+id/banner"

android:src="@drawable/image1"

android:scaleType="centerCrop"/>

<ImageView

android:layout\_marginLeft="15dp"

android:layout\_width="100dp"

android:layout\_height="150dp"

android:id="@+id/profilepic"

android:src="@drawable/images2"

android:layout\_alignBottom="@+id/linearLayout"/>

<LinearLayout

android:layout\_toRightOf="@+id/profilepic"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_below="@+id/banner"

android:orientation="horizontal"

android:weightSum="100"

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

<Button

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Timeline"

android:textSize="5dp"

android:layout\_weight="10"/>

<Button

android:layout\_weight="10"

android:textSize="5dp"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="About"/>

<Button

android:layout\_weight="10"

android:textSize="5dp"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Friends"/>

<Button

android:layout\_weight="10"

android:textSize="5dp"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="photos"/>

<Button

android:layout\_weight="10"

android:textSize="5dp"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="More"/>

</LinearLayout>

<EditText

android:textColor="@color/white"

android:textStyle="bold"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:inputType="textPersonName"

android:text="Vaisakh MV"

android:ems="10"

android:layout\_alignParentEnd="true"

android:layout\_marginEnd="55dp"

android:id="@+id/textName"

android:layout\_alignBottom="@+id/banner"/>

</RelativeLayout>

<RelativeLayout

android:paddingRight="15dp"

android:paddingLeft="15dp"

android:paddingTop="15dp"

android:paddingBottom="15dp"

android:layout\_below="@+id/relativelayout"

android:layout\_width="match\_parent"

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

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="horizontal"

android:id="@+id/linearLayout2">

<ImageView

android:layout\_marginLeft="5dp"

android:layout\_marginTop="15dp"

android:layout\_width="25dp"

android:layout\_height="25dp"

android:src="@drawable/images2"/>

<EditText

android:id="@+id/etPost"

android:layout\_marginLeft="10dp"

android:textSize="15sp"

android:layout\_width="match\_parent"

android:layout\_height="60dp"

android:hint="What's on your mind?"/>

</LinearLayout>

<Button

android:textSize="10sp"

android:text="Post"

android:layout\_width="70dp"

android:layout\_height="30dp"

android:layout\_alignParentRight="true"

android:layout\_below="@+id/linearLayout2"/>

</RelativeLayout>

</RelativeLayout>

**MainActivity.java**

package com.example.myapplication12;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

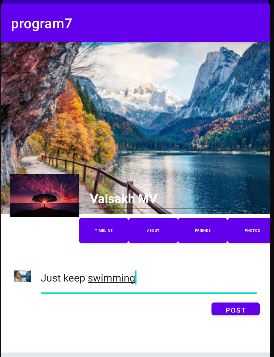
setContentView(R.layout.*activity\_main*);

}

}

**Result:** Program compiled successfully and output verified

**OUTPUT**



**Program No:08 Date:14-09-2022**

**Aim**: Develop an application that toggles image using Frame Layout.

**Program Code:**

**Activity\_main.xml**

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

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

android:id="@+id/frameLayout"

android:layout\_width="fill\_parent"

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

<ImageView

android:id="@+id/image1"

android:layout\_width="match\_parent"

android:layout\_height="400dp"

android:scaleType="center"

android:src="@drawable/sea2"/>

<ImageView

android:id="@+id/image2"

android:layout\_width="match\_parent"

android:layout\_height="400dp"

android:scaleType="centerCrop"

android:src="@drawable/sea3"/>

</FrameLayout>

**MainActivity.java**

package com.example.myapplication11;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.ImageView;

public class MainActivity extends AppCompatActivity {

ImageView i1,i2;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.*activity\_main*);

i1=findViewById(R.id.*image1*);

i2=findViewById(R.id.*image2*);

i2.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

i2.setVisibility(view.*GONE*);

i1.setVisibility(view.*VISIBLE*);

}

});

i1.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

i1.setVisibility(View.*GONE*);

i2.setVisibility(View.*VISIBLE*);

}

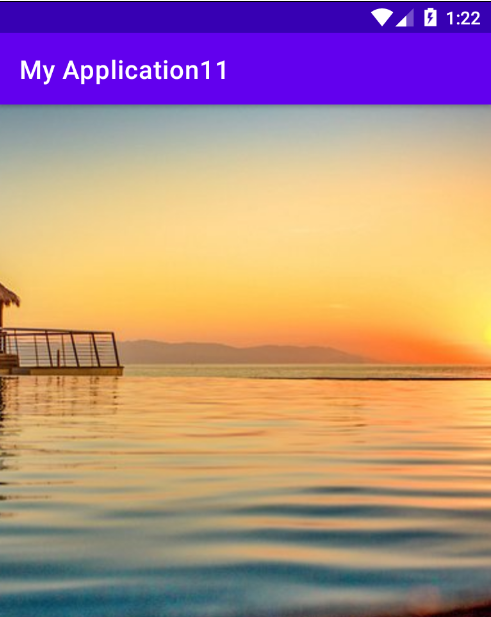
});

}

}

**Result:** Program compiled successfully and output verified.

**OUTPUT**





**Program No: 09 Date:16-09-2022**

**Aim**: Develop application to implement implicit intent.

**Program Code:**

**activity.xml**

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

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

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".MainActivity">

<EditText

android:id="@+id/t1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="http://www.google.co.in"

android:textColor="@color/design\_default\_color\_secondary"/>

<Button

android:id="@+id/btn1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="click"

android:textColor="@color/design\_default\_color\_error"/>

</LinearLayout>

**MainActivity.java**

package com.example.myapplication7;

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 {

EditText et1;

Button b1;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.*activity\_main*);

et1=findViewById(R.id.*t1*);

b1=findViewById(R.id.*btn1*);

b1.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

String url=et1.getText().toString();

Intent i=new Intent(Intent.*ACTION\_VIEW*, Uri.*parse*(url));

startActivity(i);

}

});

}

}

**Result:** Program compiled successfully and output verified.

**OUTPUT**

![A picture containing shape

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDiRXhpZgAATU0AKgAAAAgABAE7AAIAAAAIAAAISodpAAQAAAABAAAIUpydAAEAAAAQAAAQyuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHZhaXNodXMAAAWQAwACAAAAFAAAEKCQBAACAAAAFAAAELSSkQACAAAAAzQ5AACSkgACAAAAAzQ5AADqHAAHAAAIDAAACJQAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAyMDIyOjExOjAyIDE3OjM0OjExADIwMjI6MTE6MDIgMTc6MzQ6MTEAAAB2AGEAaQBzAGgAdQBzAAAA/+ELGmh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8APD94cGFja2V0IGJlZ2luPSfvu78nIGlkPSdXNU0wTXBDZWhpSHpyZVN6TlRjemtjOWQnPz4NCjx4OnhtcG1ldGEgeG1sbnM6eD0iYWRvYmU6bnM6bWV0YS8iPjxyZGY6UkRGIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczpkYz0iaHR0cDovL3B1cmwub3JnL2RjL2VsZW1lbnRzLzEuMS8iLz48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOnhtcD0iaHR0cDovL25zLmFkb2JlLmNvbS94YXAvMS4wLyI+PHhtcDpDcmVhdGVEYXRlPjIwMjItMTEtMDJUMTc6MzQ6MTEuNDg2PC94bXA6Q3JlYXRlRGF0ZT48L3JkZjpEZXNjcmlwdGlvbj48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOmRjPSJodHRwOi8vcHVybC5vcmcvZGMvZWxlbWVudHMvMS4xLyI+PGRjOmNyZWF0b3I+PHJkZjpTZXEgeG1sbnM6cmRmPSJodHRwOi8vd3d3LnczLm9yZy8xOTk5LzAyLzIyLXJkZi1zeW50YXgtbnMjIj48cmRmOmxpPnZhaXNodXM8L3JkZjpsaT48L3JkZjpTZXE+DQoJCQk8L2RjOmNyZWF0b3I+PC9yZGY6RGVzY3JpcHRpb24+PC9yZGY6UkRGPjwveDp4bXBtZXRhPg0KICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICA8P3hwYWNrZXQgZW5kPSd3Jz8+/9sAQwAHBQUGBQQHBgUGCAcHCAoRCwoJCQoVDxAMERgVGhkYFRgXGx4nIRsdJR0XGCIuIiUoKSssKxogLzMvKjInKisq/9sAQwEHCAgKCQoUCwsUKhwYHCoqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioq/8AAEQgB8QDyAwEiAAIRAQMRAf/EAB8AAAEFAQEBAQEBAAAAAAAAAAABAgMEBQYHCAkKC//EALUQAAIBAwMCBAMFBQQEAAABfQECAwAEEQUSITFBBhNRYQcicRQygZGhCCNCscEVUtHwJDNicoIJChYXGBkaJSYnKCkqNDU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A8dtvBl3Hei21RWtrjKKbZ0YTF3QsiCLG9i2AAQNuWXLAMDWr/wAIZeW9nrlyPIjh0V/LlY5QzMJUiIQEAnaZELZA2hlzgsAXvr5lkj87QNPkghjEMNuyzlIo/nYqp8zdy7lySxbIABC5UyyeL9Xkt9TgNtaCHUo2jdPsgJjVpUkO1zlicooyxY987gGH6Ph8A8MkqUEtrt7+evf8F0OxU2tkY+ladJq+sWemwSRRS3k6QI8zbUUswALHsOa6/wAT/DVNA0W71C08S6XqJ02VLXUbZGZJIbknBjQEfvAOfm4+63HynHIafdXmlana6hY7o7m0mSaF9mdrqQQcHg8joa6vxJ8Sdd8Q6KdLNtbWVtcqjaiLe1jU304YMZnIUEMSq9PT8K6q0MU6sfZ/D1/q3bbzKcZ30M3wj4btNcknn1W+WzsoJI4stKkXmSuHZUMjnbGNschLnONoAViQDc8feBn8H3g2+asRlMLxTOrtG4VWBDqAHjYN8r7VJKuCoK85/hfxFdeG7wuLZ54GljmKK2x0ljzskRsEBgGcfMrKQ7Aqe0ev67c61J5UcdxFYpKZYoJmV2QlEQjcqINoEahVChVHAAFL2eJ+s3+wHLK5h0U/ypP+ebf980eVJ/zzb/vmu3ll2K5WMop/lSf882/75o8qT/nm3/fNHLLsHKxlFP8AKk/55t/3zR5Un/PNv++aOWXYOVjKKf5Un/PNv++aPKk/55t/3zRyy7BysZRT/Kk/55t/3zR5Un/PNv8Avmjll2DlYyin+VJ/zzb/AL5o8qT/AJ5t/wB80csuwcrGUU/ypP8Anm3/AHzR5Un/ADzb/vmjll2DlYyin+VJ/wA82/75o8qT/nm3/fNHLLsHKxlFP8qT/nm3/fNHlSf882/75o5Zdg5WMqextvtuoW9qZ4bYTyrH507bY49xxuY84UZyT6VH5Un/ADzb/vmjypP+ebf980nGVg5We2a7+zvb6J4du9Tm8YRItpE8rvcWRSM4HAyrsRzxwGJyMDPXx/SdBbXJ5AxigtbdPMurucfu7dOm4nrkngKOWJAAJNa19438S6j4Ls/C13dSPplo+5FKnewGNiM3UqvO0ds99q7XN4qkbwXB4a/sKyW1iuRdPMqyCWaUKy5Zt3PDHjGBXmUaGMjTca75232Wi7+vkQoztqUtJ+F+oeKPEur6N4bkie602KaVY522eeI3VNqnoGO4YycepHWuIuLaezupba7hkguIXMcsUqlWjYHBUg8ggjBBr1DwZ4+1Dwd4xvvEEOnR3U17HJHJE+5VG91ckH6qPXiuZ+Imt3Hi/wAWXfiWezFq92YxJEmSq7UVAcn/AHf1r5zM8qqwlKtThaCSb9eun9IxnSktbHJYopaK+aMDtaK2tG8K3+u6Jq+p2LweXpKJJNE77XkUhydgxg4WNmIyOBxmpofBOsXPhe01u1hFwl5dfZre0gDSXEnDneEUH5f3Ug9cqeMc1+2SxNGLalJKzt82r/kfQc8V1OfoqWS0uIrWG5lt5Ut5ywilZCFkK43BT0OMjOOmRWunhHU38Ev4pVU+wpc+QVORJjgeYBjBTcwXIP3jjFXKrThbme7t8+w3JLcw6K0ZfD2tQaZ/aM2kX8djtVvtT2ziLDY2nfjGDuGOecj1ovvD2taXardanpF/Z27sFWW4tnjRiRkAEgDOATQqtNuykvvDmRnUV0WueELjSJr5Ypnu1tdUbTF22soMrgZBB2lMn+5vLe2OazpPDutw6nFps2j6hHfTLvitWtXEsi88hMZI+U8gdj6VMMRSnHmUhKSZnUVt2ng7X7yTUootKu1m0yFZrmF7dw6BiAo24zkg7gD/AAqx7VD/AMI5qU97FaaZaXOozyWsd0Y7a1lLKjKDypUEgbh8wypyCCc0e3pNtcy0Dmj3MqitO18M69fPMllomo3DW8himWG0kcxuOqtgcEeh5qpZ2sdxfLb3V1FYKSQ01wrlUwD1CKzdRjgHk1ftIO9ne3bUd0V6K2dc8O/2LY6deJqthqEOopI8P2UyBlVG2EsrorAFgwBxztb0rGop1I1I80dv8tATTV0FFFFaDCiiigAooooAKKKKACiiigAooooAKKKKACq2oRiXTp1boELflz/SrNQ3f/HlP/1zb+Vc2KipYeae1n+RM9Ys5HFFOxRX4qfPnsvgjxRY+G9J1E3ZEksl5ZuLYxb/AD4V81Z05BXlJCvP97itfU/Flg1lBYeE2eefTtYshpMBtjumjhjkAchVGS8zlsH5iZOnp5rQCVYFSQQcgjtX7HUy+lOq6r3f3aW/y/FnvOlFvmO4+K95ajxZ/Y2lBo9P0pXRIRKGWOWV2mlAC8KQz7CBnHlgZ4reh8YeDYRF4aktPM04aUdNbWlkldVLgSvKLZ16+fznr8oxwAK8poqHl1OVGFKUn7vZ21/m9d97rV3TF7JOKT6Hsmu6rpuh6PY3V5fk3V74Hg0+GwSJizGQcSFsbQo5OM5yOlVPiPe6fp2oeKIjrEst5qlrYQDTUiYLGUEUnmOx+UgKmBjJzIwwBk15MST1OaCSTknJrGllUac4zc27emuqa+St6+ZMaKTTuevp8Q/DtjNLc7/t+PGEmprB5LAtbtCUEo3ADcGIIUkHIHTrWHpmo+HdNu4tPvfFN9qlotneJG4SeG0jeXG1HVSJSjbSXCjGSvUbjXnlFaRyulBNRk1f087dNLXe3zuNUYrZnqGueIPDOpak9rbatHDaSeF4dNFytpNsSeOZH27SC+CI8Z+bGRyeapnxHouoaXf6NLqjWKX2maXH9rMLtGsltGA8bqqliMnggEZUdua87oqo5bTjFRUnpbtumnfbyXkNUkla56jrHjvSb/zJbW/uFk/4SCyug0qMJHhhtxG0pKjGSyg4znnpXE69cWWsePtSuY7sRWF7qcsi3TRsQsTyk79uN3AOcYzWJRWuHwNPD/w29rdPLy8hxpqOxu+MtZh1vxLNJYbhptqq2mnoWY7LeMbUxu5GQNxB7sawqKK6qdONKChHZFpJKyCiiitBhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABUN3/wAeU/8A1zb+VTVDd/8AHlP/ANc2/lXPif4E/R/kTP4WcrRRRX4ofPn2r/wpXwP/ANAhv/Aub/4uj/hSvgf/AKBDf+Bc3/xdddNrljD9ozMrC3t1uCVZTuU5xt55PH/jy+tWF1CyacQrdwGU4xGJRuORkcZ7jn6V3f2hj/8An7P/AMCf+ZKxqbsqn4+v+TOJ/wCFK+B/+gQ3/gXN/wDF0f8AClfA/wD0CG/8C5v/AIuu3N5CfI8thKJ3KIyHIyASeR/un8aZHqVq9u0zypEi8kyOB8pYqrdfutjg96P7Qx3/AD+n/wCBP/Mr61rbn/H+u5xf/ClfA/8A0CG/8C5v/i6P+FK+B/8AoEN/4Fzf/F13LXdujOr3ESmMFnBcDaAAST6YDKfxHrS/aIfOMXnR+YOqbhnpnp9OaX9o47/n9P8A8Cf+ZX1iX8/4nC/8KV8D/wDQIb/wLm/+Lo/4Ur4H/wCgQ3/gXN/8XXdRzwzY8mVJMorjawOVOcH6HBwfaoU1SwkVmjvrZ1RN7FZlO1fU89Pej+0cd/z+n/4E/wDMTxTVrz38zi/+FK+B/wDoEN/4Fzf/ABdH/ClfA/8A0CG/8C5v/i67b+0LIRCX7XB5Zfyw/mjG7+7nPX2ol1GyhjSSa8t40kXejPKoDLxyDnkcj86f9oY7/n9P/wACf+YvrWl/aficT/wpXwP/ANAhv/Aub/4uj/hSvgf/AKBDf+Bc3/xddkNSgWS5W5eO3WCYQhpJAA58tX7+zHj2zU7XMCW4uHmjWEgESFwFIPTnpzkUf2hjv+f0/wDwJ/5gsU5XtPbz7HDf8KV8D/8AQIb/AMC5v/i6P+FK+B/+gQ3/AIFzf/F12ralYpEsr3tusb5KuZVAbBwcHPY9allmEUkKEZ819g+YDHylu/Xp0HP4A0v7Rx3/AD+n/wCBP/MaxLe0+3XvscL/AMKV8D/9Ahv/AALm/wDi64ia3+BkFxJC825o2KkxtdupIOOGGQR7g4Ne2xXtreRv9kuYZ9q5PlSBsA5x0+h/KviSvpMjp18xdT21eouW20n1v3v2OzCt103zu3kz2vZ8Cv8Ano/5XtGz4Ff89H/K9rxSivonlMIvleKqX/x/8A7lhm1dSl957Xs+BX/PR/yvaNnwK/56P+V7XilFS8sprfFVP/A/l276D+qye0pHtez4Ff8APR/yvataZpXwU1jU4NPsGD3Nw+yJXku4wzdhuYgZPQDPJwBya8Kra8F/8j7oH/YTtv8A0atKtlLhSlOOJq3Sb+P/AIBnKg0m+Z/efRf/AApXwP8A9Ahv/Aub/wCLo/4Ur4H/AOgQ3/gXN/8AF131Ffnn9pY3/n9L/wACf+Z5ftan8z+84H/hSvgf/oEN/wCBc3/xdH/ClfA//QIb/wAC5v8A4uu+oo/tLG/8/pf+BP8AzD2tT+Z/ecD/AMKV8D/9Ahv/AALm/wDi6P8AhSvgf/oEN/4Fzf8Axdd9RR/aWN/5/S/8Cf8AmHtan8z+84H/AIUr4H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M1FAz2miimGWMHBkUH/eoER/YbX+0jqH2eP7Z5Xkeft+cR53bc9hnnH09BU/TpTPOi/wCeif8AfQo86L/non/fQoAfVS/0u01NUF5GzhA4G2Rk4ZSrA7SMgg9DxkA9QCLHnRf89E/76FHnRf8APRP++hQBnXvhvS9Qnee5t3E7xxR+fFPJFIgj8zZsdGBQjzZBlSCQ5BJBxVltLs3+wZgH/EufzLUBiPLby2j9efkdhg56+oFWPOi/56J/30KPOi/56J/30KAMi08I6JYy2j2lo8Qs4444oxcSeX+7QIjMm7a7qoUB2BYBV54FWG0DTjog0lYZI7JSDHHFPIhiw25QjKwZApxtCkBQABgACr/nRf8APRP++hR50X/PRP8AvoUAZQ8KaKIyi2e0GHyWZZXDOBJ5gdmzlpBIS4kPzhmZgwLElG8I6I9kbWSzZ4mtbi0bfPIzPHOVMwZi25ixRSWJLcdeTWt50X/PRP8AvoUedF/z0T/voUAU7XRLGx1Ke+tEliluMmRFuJPKLE5LCLdsDEjJYKCcnJ5NMk8O6TNeG6mso5Zvti3+6TLYnWIRLIATgEIAB2B5681f86L/AJ6J/wB9Cjzov+eif99CgDJn8JaNcC5EltJi5lWZglzKoR1kEu6MBh5ZMih22bdzDLZNTp4f01NE/slbdjZ7i+GlcvvL7/M8wnfv3/PvzuDc5zzV/wA6L/non/fQo86L/non/fQoAyovCukQS2stvBNBJa/deK6lRpfnL/vSGzNlmZv3m7JZj1Y5kn8N6TcgCezDgRTwjLtwszrJJ36lkU56jHGK0fOi/wCeif8AfQo86L/non/fQoAyZvCekXEFvDcx3M6W6sg82+ncyoxyySkvmVDj7r7lxxjHFbNM86L/AJ6J/wB9Cjzov+eif99CgB9FM86L/non/fQo86L/AJ6J/wB9CgB9FM86L/non/fQo86L/non/fQoAfRTPOi/56J/30KPOi/56J/30KAH0Uzzov8Anon/AH0KPOi/56J/30KAH0Uzzov+eif99CnKyuMqwYexoA8X/ak/5Jfp3/YYi/8ARM1FH7Un/JLtO/7DEX/omaigZ7TRTPNj/wCei/8AfVHmx/8APRf++qBD6KZ50f8Az0X86z21tF8RLpP2O6Ia2+0fbRH/AKOPmxsL5+/xnHpQBp0UzzY/+ei/99VUu9US0uVV1LwC3lnd40kkYbCmFCqhDEhjxkMcfKrc7QC9RWUfEmni2efbfbI5XiI/s643FlUsSF2ZK4HDAbSeASTipv7as/7S+w/6R52QN32SXyuVLf6zbs6A9+uB1IFAF+is8a3ZnVGsB9p85WCljaS+VkqW4l27CMA87sA4U8kCoo/Emny2/nKt8F3omG0+4VsuMj5Smcepxhe+KANWis+e/uJdPhuNHhgneUK3l3sr22EIzyPLZg3T5SoI5zgjFQWGuNLoFpqGq2r2ctyFJtoVknaPcflDAIGBwRuyo2nOTxmgDXorMTxDYPPBEFvA06oyE2E4UBwSNzFMIeDkMQVOAcEilTX7F1lIF2BEyq26ymGSzlBjKfMMgkkZAXDHCkGgDSorCutcuZWji0q3GbhIWinuIZVEW/zCzSIVXG0IPl3BtzANsyGNlfEFnutY5FuhJcpGy7bKcqu/OAzbMJjByGwV43AZFAGpRWOfEltJbCWztr2Y+ZApR7OWEhZZAu751H3RlmHUAc4yKfHr0Cskd1HMkskrooitppFwJfLUlvLAXOQeeMZILKN9AGrRWUPEmnmW5j232bZXZz/Z9xghCAdh2Yc88BclhyMgVdtr6C6h82JmVdzLiWNo2yrEH5WAOMjg4wRgjIINAFiimebH/wA9F/76o82P/nov/fVAD6KZ5sf/AD0X/vqjzY/+ei/99UAPopnmx/8APRf++qPNj/56L/31QA+imebH/wA9F/76o82P/nov/fVAD6KZ5sf/AD0X/vqjzY/+ei/99UAeM/tSf8ku07/sMRf+iZqKb+1G6N8L9OCsCf7Yi6H/AKYzUUDPa6KradqFtq2l2mo2Enm2t5Ck8Em0jcjqGU4PIyCOtWaBBRRRQAUUUUAFFFFABRRRQAUUUUAFFFNEiGQoGUuBkrnkD6UAOooooAKKKKACiiigAooprSIjKHZVLHCgnGT7UAOooooAKKaZEEgQsocjIXPJH0p1ABRRRQAUUUUAeK/tS/8AJLtO/wCwzF/6JmornP2rPEA26D4dhn5+e+uIdp4/gibPT/nsMf8A1qKBifs6fFW1t7WPwR4huRC3mH+yppMBW3HJgJ7EsSVznO4rkfKD9HV+ctfoN4X/AORQ0f8A68YP/Ra02I1KKKKQBRRRQAUUUUAFMllWGF5X4VFLH6Cn1R1r/kDXH+6P5igCvYq9rdRPMT/pqFmyeknXH5HH4VblvJPtLW9rB50iAFyz7VXPQZ55/CotS+9Yf9fK/wAjT7P/AJCN/wD9dE/9AFAFe5ub4X1mqwKu4MTH53DHHQ8dqmku/KuLnZaq0sUKuSGwX68Zx2xRd/8AIXsP+2n/AKDTV/5DV3/17p/NqAJ5b5UtYZYl8wzsojXOM5/+tzTLq9uLfzHWzLwxDLOZACR3IHf9KpWf/Hvo/wDwL/0E1U8U9V+g/nQBo3d1c/2hZi2RWjkDMAZNu/jvx2qxJey+e0NrbiZ4wDJmTaFz0Gccmq3/AC9aT/1zb/0AVzev/wDIcuPqP5CgDtLW4W6t1lQFc5BVuoIOCKoWsosVv4m+7AxlUf7LDP8APNJ4b/5Akf8AvN/Oq+rf66+/69U/9DNAEumSNYx3MdyeVQXHP+0Of1Bp9pi1tbFZoVeW4kLFj1RiCc/0qDVf9fc/9eJ/9Cq1df67TP8Arr/7IaAHHUZ3kuEt7PzTA+1sybc8Z446+36086mrWsEkETSyXH+rjzj65PbFN0//AF+of9dz/wCgiqOnfe0n/rnLQBYWWWTXoBcQeUywv0bcp5HQ1MNQnmVpLSz82FSQGaQKWx1wMfzxST/8h23/AOuEn8xTtF/5A1v/ALp/maAHxagk01uEQ+XOhZXJ6EdVI/z0qJdVVre7l8oj7OxABP3x2P4mqVl/qtN/67Tf+zVCv/HnJ/1zt/8A0M0AapvpmuHht7USPEFMmZduCRnA45/SqXi3xdpHgnw7PrOv3Hk28XCIvMkznpGi/wATHH0ABJIAJCTf8jhF/wBca+ef2q/+Rv0L/rxb/wBGGgDyLxZ4kvvG3jC91vUSBcX03yoMYjThUQYA4VQBnqcZPJNFZNr/AMfcX++KKbA//9k=)

**Program No: 10 Date:20-09-2022**

**Aim**: Implement options menu to navigate two activities.

**Program Code:**

**Activity\_main.xml**

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

<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".MainActivity">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Hello World!"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintLeft\_toLeftOf="parent"

app:layout\_constraintRight\_toRightOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>

**menu.xml**

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

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

<item android:id="@+id/item1

android:title="File"/>

<item android:id="@+id/item2"

android:title="Edit">

<menu>

<item android:id="@+id/sitem1"

android:title="Cut"/>

<item android:id="@+id/sitem2"

android:title="Copy"/>

<item android:id="@+id/sitem3"

android:title="Paste"/>

</menu>

</item>

<item android:id="@+id/item3"

android:title="View"/>

</menu>

**MainActivity.java**

package com.example.myapplication4;

import androidx.annotation.NonNull;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.Menu;

import android.view.MenuItem;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.*activity\_main*);

}

@Override

public boolean onCreateOptionsMenu(Menu menu) {

getMenuInflater().inflate(R.menu.*menu*,menu);

return true;

}

@Override

public boolean onOptionsItemSelected(@NonNull MenuItem item) {

switch (item.getItemId()){

case R.id.*item1*:

Toast.*makeText*(getApplicationContext(),"File selected",Toast.*LENGTH\_SHORT*).show();

break;

case R.id.*item2*:

Toast.*makeText*(getApplicationContext(),"Edit selected",Toast.*LENGTH\_SHORT*).show();

break;

case R.id.*sitem1*:

Toast.*makeText*(getApplicationContext(),"Cut selected",Toast.*LENGTH\_SHORT*).show();

break;

case R.id.*sitem2*:

Toast.*makeText*(getApplicationContext(),"Copy selected",Toast.*LENGTH\_SHORT*).show();

break;

case R.id.*sitem3*:

Toast.*makeText*(getApplicationContext(),"Paste selected",Toast.*LENGTH\_SHORT*).show();

break;

case R.id.*item3*:

Toast.*makeText*(getApplicationContext(),"View selected",Toast.*LENGTH\_SHORT*).show();

break;

}

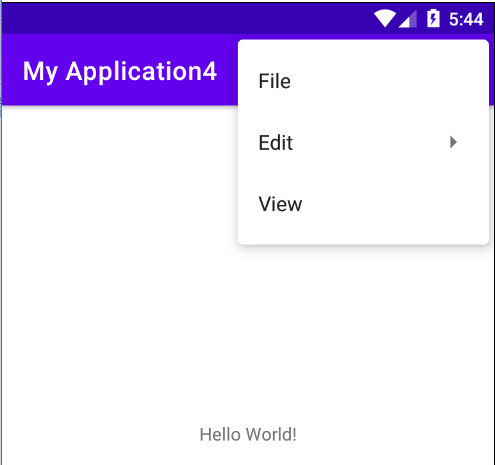
return super.onOptionsItemSelected(item);

}

}

**Result:** Program compiled successfully and output verified.

**OUTPUT**



**Program No:11 Date:27-09-2022**

**Aim**:Develop an application that uses Array Adapter with List View.

**Program Code:**

**Activity\_main.xml**

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

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

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

app:layout\_behavior="@string/appbar\_scrolling\_view\_behavior"

tools:context=".MainActivity"

tools:showIn="@layout/activity\_main">

<ListView

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

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

</LinearLayout>

**MainActivity.java**

package com.example.myapplication10;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.AdapterView;

import android.widget.ArrayAdapter;

import android.widget.ListView;

public class MainActivity extends AppCompatActivity {

ListView l;

String[] p={"A.P.J Abdul Kalam","Sachin Tendulkar"," Cristiano Ronaldo"};

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.*activity\_main*);

l=findViewById(R.id.*l*);

ArrayAdapter <String>adapter=new ArrayAdapter<String>(this, android.R.layout.*simple\_list\_item\_1*,p);

l.setAdapter(adapter);

l.setOnItemClickListener(new AdapterView.OnItemClickListener() {

@Override

public void onItemClick(AdapterView<?> adapterView, View view, int i, long l) {

if(i==0)

{

Intent s=new Intent(MainActivity.this,MainActivity2.class);

startActivity(s);

}

else if (i==1)

{

Intent s=new Intent(MainActivity.this,MainActivity3.class);

startActivity(s);

}

else if (i==2)

{

Intent s=new Intent(MainActivity.this,MainActivity4.class);

startActivity(s);

}

}

});

}

}

**Activity\_main2.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=".MainActivity2">

<TextView

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:text="Born on 15th October 1931 at Rameswaram in Tamil Nadu, Dr.Avul Pakir Jainulabdeen Abdul Kalam specialized in Aeronautical Engineering from Madras Institute of Technology."/>

</androidx.constraintlayout.widget.ConstraintLayout>

**Activity\_main3.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=".MainActivity3">

<TextView

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:text="Sachin Tendulkar was the most complete batter of his time, the most prolific run-maker of all time, and arguably the biggest cricket icon the game has ever known."/>

</androidx.constraintlayout.widget.ConstraintLayout>

**Activity\_main4.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=".MainActivity4">

<TextView

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:text="In February 2021, Ronaldo became the first person in the world to reach 500 million followers across Facebook, Instagram and Twitter."/>

</androidx.constraintlayout.widget.ConstraintLayout>

**Result :** Program compiled successfully and output verified.

**OUTPUT**

![Graphical user interface, application

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDiRXhpZgAATU0AKgAAAAgABAE7AAIAAAAIAAAISodpAAQAAAABAAAIUpydAAEAAAAQAAAQyuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHZhaXNodXMAAAWQAwACAAAAFAAAEKCQBAACAAAAFAAAELSSkQACAAAAAzEzAACSkgACAAAAAzEzAADqHAAHAAAIDAAACJQAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAyMDIyOjExOjAyIDE4OjAxOjU0ADIwMjI6MTE6MDIgMTg6MDE6NTQAAAB2AGEAaQBzAGgAdQBzAAAA/+ELGmh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8APD94cGFja2V0IGJlZ2luPSfvu78nIGlkPSdXNU0wTXBDZWhpSHpyZVN6TlRjemtjOWQnPz4NCjx4OnhtcG1ldGEgeG1sbnM6eD0iYWRvYmU6bnM6bWV0YS8iPjxyZGY6UkRGIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczpkYz0iaHR0cDovL3B1cmwub3JnL2RjL2VsZW1lbnRzLzEuMS8iLz48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOnhtcD0iaHR0cDovL25zLmFkb2JlLmNvbS94YXAvMS4wLyI+PHhtcDpDcmVhdGVEYXRlPjIwMjItMTEtMDJUMTg6MDE6NTQuMTI1PC94bXA6Q3JlYXRlRGF0ZT48L3JkZjpEZXNjcmlwdGlvbj48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOmRjPSJodHRwOi8vcHVybC5vcmcvZGMvZWxlbWVudHMvMS4xLyI+PGRjOmNyZWF0b3I+PHJkZjpTZXEgeG1sbnM6cmRmPSJodHRwOi8vd3d3LnczLm9yZy8xOTk5LzAyLzIyLXJkZi1zeW50YXgtbnMjIj48cmRmOmxpPnZhaXNodXM8L3JkZjpsaT48L3JkZjpTZXE+DQoJCQk8L2RjOmNyZWF0b3I+PC9yZGY6RGVzY3JpcHRpb24+PC9yZGY6UkRGPjwveDp4bXBtZXRhPg0KICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICA8P3hwYWNrZXQgZW5kPSd3Jz8+/9sAQwAHBQUGBQQHBgUGCAcHCAoRCwoJCQoVDxAMERgVGhkYFRgXGx4nIRsdJR0XGCIuIiUoKSssKxogLzMvKjInKisq/9sAQwEHCAgKCQoUCwsUKhwYHCoqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioq/8AAEQgB6AD5AwEiAAIRAQMRAf/EAB8AAAEFAQEBAQEBAAAAAAAAAAABAgMEBQYHCAkKC//EALUQAAIBAwMCBAMFBQQEAAABfQECAwAEEQUSITFBBhNRYQcicRQygZGhCCNCscEVUtHwJDNicoIJChYXGBkaJSYnKCkqNDU2Nzg5OkNERUZHSElKU1RVVldYWVpjZG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KKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAPhH4hf8lO8Uf9hi7/8ARz0UfEL/AJKd4o/7DF3/AOjnoqgPu6iiipAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigD4R+IR/4ud4o/7DF3/6Oeij4hD/AIud4o/7DF3/AOjnopgfd1FFFIAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAPhL4hf8lO8Uf9hi7/8ARzUU34hf8lO8Uf8AYYu//Rz0UwPu+iiikAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHwh8Qv8Akp3ij/sMXf8A6Oeik+If/JTvFH/YYu//AEc9FMZ94UUUUhBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAfB3xD/5Kf4o/wCwxd/+jnoo+If/ACU/xR/2GLv/ANHPRQUfeNFFFBIUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHwf8Q/+SneKP+wxd/8Ao56KX4hf8lO8Uf8AYYu//Rz0UDPu+iiigQUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHwf8Q/8Akp3ij/sMXf8A6Oeil+IX/JTvFH/YYu//AEc9FAz7vooooEFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQB8IfEL/kp3ij/sMXf/o56KT4hj/i53ij/sMXf/o56KBn3hRRRQIKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigD4Q+IX/ACU7xR/2GLv/ANHPRSfEP/kp3ij/ALDF3/6Oeigo+8KKKKCQooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAPg/wCIf/JTvFH/AGGLv/0c9FJ8Q/8Akp/ij/sMXf8A6OeigZ940UUUCCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA+DfiHn/hZ/in/sMXf/o56KX4h/8AJT/FP/YYu/8A0c9FBR940UUUEhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAfB3xD/5Kf4o/7DF3/wCjnoo+If8AyU/xT/2GLv8A9HPRSKPvGiiimSFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQB8H/ABD/AOSneKP+wxd/+jnopPiH/wAlP8Uf9hi7/wDRz0UFH3jRRRQSFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQB8HfEP/kp/ij/sMXf/AKOeij4h/wDJT/FP/YYu/wD0c9FBR940UUUEhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAfBvxD/wCSn+Kf+wxd/wDo56KPiH/yU/xT/wBhi7/9HPRQUfeVFFFBIUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHwb8Qz/xc/wAU/wDYYu//AEc9FJ8Q/wDkp/in/sMXf/o56KRR950UUUyQooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAPgz4h/8lQ8U/8AYYu//Rz0UnxE/wCSoeKf+wxd/wDo56KRZ96UUUUyAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAPgv4if8lQ8U/9hi7/APRz0UfEQ/8AF0PFPH/MYu//AEc9FIo+9KKKKZIUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHwV8RM/8LQ8U/8AYZu//Rz0UvxEH/F0PFP/AGGbv/0c9FBR96UUUUEhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAfBfxE/5Kh4p/7DF3/6Oeij4if8lQ8U/wDYYu//AEc9FIo+9KKKKZIUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHwX8RP+SoeKf+wxd/8Ao56KPiJ/yVDxT/2GLv8A9HPRSKPof/hqvwR/0CvEH/gPB/8AHqP+Gq/BH/QK8Qf+A8H/AMer5Jopkn1t/wANV+CP+gV4g/8AAeD/AOPUf8NV+CP+gV4g/wDAeD/49XyTRQB9bf8ADVfgj/oFeIP/AAHg/wDj1H/DVfgj/oFeIP8AwHg/+PV8k0UAfW3/AA1X4I/6BXiD/wAB4P8A49R/w1X4I/6BXiD/AMB4P/j1fJNFAH1t/wANV+CP+gV4g/8AAeD/AOPUf8NV+CP+gV4g/wDAeD/49XyTRQB9bf8ADVfgj/oFeIP/AAHg/wDj1H/DVfgj/oFeIP8AwHg/+PV8k0UAfW3/AA1X4I/6BXiD/wAB4P8A49R/w1X4I/6BXiD/AMB4P/j1fJNFAH1t/wANV+CP+gV4g/8AAeD/AOPUf8NV+CP+gV4g/wDAeD/49XyTRQB9bf8ADVfgj/oFeIP/AAHg/wDj1H/DVfgj/oFeIP8AwHg/+PV8k0UAfW3/AA1X4I/6BXiD/wAB4P8A49R/w1X4I/6BXiD/AMB4P/j1fJNFAH1t/wANV+CP+gV4g/8AAeD/AOPUf8NV+CP+gV4g/wDAeD/49XyTRQB9bf8ADVfgj/oFeIP/AAHg/wDj1H/DVfgj/oFeIP8AwHg/+PV8k0UAfW3/AA1X4I/6BXiD/wAB4P8A49R/w1X4I/6BXiD/AMB4P/j1fJNFAH1t/wANV+CP+gV4g/8AAeD/AOPUf8NV+CP+gV4g/wDAeD/49XyTRQB9bf8ADVfgj/oFeIP/AAHg/wDj1H/DVfgj/oFeIP8AwHg/+PV8k0UAdB4p1aDXvGOs6vaI6W+oX891EsoAdVeRmAYAkZwecE0VjKflH0ooGf/Z)

# **PROGRAM No:12 Date:12-10-2022**

**AIM**: Implement and perform exception handling.

## Program Code:

**Activity.xml**

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

<RelativeLayout xmlns:android=["ht](http://schemas.android.com/apk/res/android)t[p://schemas.android.com/apk/res/android"](http://schemas.android.com/apk/res/android) xmlns:app=["ht](http://schemas.android.com/apk/res-auto)t[p://schemas.android.com/apk/res-auto"](http://schemas.android.com/apk/res-auto) xmlns:tools=["ht](http://schemas.android.com/tools)t[p://schemas.android.com/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:id="@+id/tv1" />

</RelativeLayout>

## MainActivity.java

package com.example.myapplication;

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

import android.widget.TextView; import android.widget.Toast;

public class MainActivity extends AppCompatActivity { TextView tv1;

@Override

protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.*activity\_main*);

try {

tv1.setText("WELCOME");

}

catch (Exception e){ Toast.*makeText*(this,e.getMessage(),Toast.*LENGTH\_LONG*).show();

}

}

}

**Result** : Program complied successfully and output verified .

**OUTPUT**

-Graphical user interface, text, application

Description automatically generated

# **PROGRAM No:13 Date:25-10-2022**

**AIM**: Develop an application that use GridLayout with images and display Alert box on selection.

## Program Code:

**Activity.xml**

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

<GridLayout xmlns:android=["ht](http://schemas.android.com/apk/res/android)t[p://schemas.android.com/apk/res/android"](http://schemas.android.com/apk/res/android) xmlns:app=["ht](http://schemas.android.com/apk/res-auto)t[p://schemas.android.com/apk/res-auto"](http://schemas.android.com/apk/res-auto) xmlns:tools=["ht](http://schemas.android.com/tools)t[p://schemas.android.com/tools](http://schemas.android.com/tools)" android:layout\_width="match\_parent" android:layout\_height="match\_parent"

tools:context=".MainActivity">

<ImageView android:layout\_width="400dp" android:layout\_height="200dp" android:id="@+id/img1" android:src="@drawable/img1" android:scaleType="centerCrop" android:layout\_row="0" android:layout\_column="0" />

<ImageView android:layout\_width="wrap\_content"

android:layout\_height="400dp" android:layout\_column="0" android:scaleType="centerCrop" android:src="@drawable/img2" android:id="@+id/img2" android:layout\_row="1"/>

</GridLayout>

## MainActivity.java

package com.example.gridLayout

import androidx.appcompat.app.AppCompatActivity;

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

import android.widget.ImageView; import android.widget.Toast;

public class MainActivity extends AppCompatActivity { ImageView im1,im2;

@Override

protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState);

setContentView(R.layout.*activity\_main*); im1=findViewById(R.id.*img1*); im2=findViewById(R.id.*img2*); im1.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) { Toast.*makeText*(getApplicationContext(),"gitar",Toast.*LENGTH\_LONG*).show();

}

});

im2.setOnClickListener(new View.OnClickListener() { @Override

public void onClick(View view) { Toast.*makeText*(getApplicationContext(),"nature",Toast.*LENGTH\_LONG*).show();

}

});

}

}

**Result** : Program complied successfully and output verified .

**OUTPUT**

****

# **PROGRAM No:14 Date:28-10-2022**

**AIM**: Develop an application that implements Spinner component and perform event handling.

## Program Code:

**Activity.xml**

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

<androidx.constraintlayout.widget.ConstraintLayout xmlns:android=["ht](http://schemas.android.com/apk/res/android)t[p://schemas.android.com/apk/res/android"](http://schemas.android.com/apk/res/android)

xmlns:app=["ht](http://schemas.android.com/apk/res-auto)t[p://schemas.android.com/apk/res-auto"](http://schemas.android.com/apk/res-auto) xmlns:tools=["ht](http://schemas.android.com/tools)t[p://schemas.android.com/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:textSize="20dp" android:text="Select your navigation :"/>

<Spinner android:id="@+id/spinner" android:layout\_width="149dp" android:layout\_height="40dp"

android:layout\_marginBottom="8dp" android:layout\_marginEnd="8dp" android:layout\_marginStart="8dp" android:layout\_marginTop="8dp" app:layout\_constraintBottom\_toBottomOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintHorizontal\_bias="0.502" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toTopOf="parent" app:layout\_constraintVertical\_bias="0.498" />

</androidx.constraintlayout.widget.ConstraintLayout>

## MainActivity.java

package com.example.spinner;

import androidx.appcompat.app.AppCompatActivity;

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

import android.widget.AdapterView; import android.widget.ArrayAdapter; import android.widget.Spinner; import android.widget.Toast;

public class MainActivity extends AppCompatActivity implements AdapterView.OnItemSelectedListener {

String[] country={"India","USA","China","other"};

@Override

protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.*activity\_main*);

Spinner spin=(Spinner) findViewById(R.id.*spinner*); spin.setOnItemSelectedListener(this);

ArrayAdapter aa = new ArrayAdapter(this,android.R.layout.*simple\_spinner\_item*,country); aa.setDropDownViewResource(android.R.layout.*simple\_spinner\_dropdown\_item*); spin.setAdapter(aa);

}

@Override

public void onItemSelected(AdapterView<?> arg0, View arg1, int position,long id)

{

Toast.*makeText*(getApplicationContext(),country[position],Toast.*LENGTH\_LONG*).show();

}

@Override

public void onNothingSelected(AdapterView<?> adapterView){

}

}

**Result** : Program complied successfully and output verified .

**OUTPUT**

Chart

Description automatically generated with medium confidence A picture containing chart

Description automatically generated

# **PROGRAM No:15 Date:04-11-2022**

**AIM**: Implemet Navigation drawer.

## Program Code:

**Activity.xml**

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

*<!-- the root view must be the DrawerLayout -->*

<androidx.drawerlayout.widget.DrawerLayout xmlns:android=["ht](http://schemas.android.com/apk/res/android)t[p://schemas.android.com/apk/res/android"](http://schemas.android.com/apk/res/android) xmlns:app=["ht](http://schemas.android.com/apk/res-auto)t[p://schemas.android.com/apk/res-auto"](http://schemas.android.com/apk/res-auto) xmlns:tools=["ht](http://schemas.android.com/tools)t[p://schemas.android.com/tools](http://schemas.android.com/tools)" android:id="@+id/my\_drawer\_layout" android:layout\_width="match\_parent" android:layout\_height="match\_parent" tools:context=".MainActivity" tools:ignore="HardcodedText">

<LinearLayout android:layout\_width="match\_parent" android:layout\_height="match\_parent">

<TextView android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:layout\_marginTop="128dp" android:gravity="center" android:text="Navigation" android:textSize="18sp" />

</LinearLayout>

*<!-- this the navigation view which draws and shows the navigation drawer -->*

*<!-- include the menu created in the menu folder -->*

<com.google.android.material.navigation.NavigationView android:layout\_width="wrap\_content" android:layout\_height="match\_parent" android:layout\_gravity="start" app:menu="@menu/navigation\_menu" />

</androidx.drawerlayout.widget.DrawerLayout>

## MainActivity.java

package com.example.myapplication; import androidx.annotation.NonNull;

import androidx.appcompat.app.ActionBarDrawerToggle; import androidx.appcompat.app.AppCompatActivity; import androidx.drawerlayout.widget.DrawerLayout;

import android.os.Bundle; import android.view.MenuItem;

public class MainActivity extends AppCompatActivity { public DrawerLayout drawerLayout;

public ActionBarDrawerToggle actionBarDrawerToggle; @Override

protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.*activity\_main*);

drawerLayout = findViewById(R.id.*my\_drawer\_layout*); actionBarDrawerToggle = new ActionBarDrawerToggle(this, drawerLayout,

R.string.*nav\_open*, R.string.*nav\_close*);

*// pass the Open and Close toggle for the drawer layout listener*

*// to toggle the button* drawerLayout.addDrawerListener(actionBarDrawerToggle); actionBarDrawerToggle.syncState();

*// to make the Navigation drawer icon always appear on the action bar*

getSupportActionBar().setDisplayHomeAsUpEnabled(true);

}

*// override the onOptionsItemSelected()*

*// function to implement*

*// the item click listener callback*

*// to open and close the navigation*

*// drawer when the icon is clicked*

@Override

public boolean onOptionsItemSelected(@NonNull MenuItem item) { if (actionBarDrawerToggle.onOptionsItemSelected(item)) {

return true;

}

return super.onOptionsItemSelected(item);

}

}

## String.xml

<resources>

<string name="app\_name">My Application</string>

*<!-- to toggle the open close button of the navigation drawer -->*

<string name="nav\_open">Open</string>

<string name="nav\_close">Close</string>

</resources>

## Navigation\_menu

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

<menu xmlns:android=["ht](http://schemas.android.com/apk/res/android)t[p://schemas.android.com/apk/res/android"](http://schemas.android.com/apk/res/android)>

xmlns:tools=["ht](http://schemas.android.com/tools)t[p://schemas.android.com/tools](http://schemas.android.com/tools)" tools:ignore="HardcodedText">

<item

android:id="@+id/nav\_account" android:title="My Account" />

<item

android:id="@+id/nav\_settings" android:title="Settings" />

<item

android:id="@+id/nav\_logout" android:title="Logout" />

</menu>

**Result** : Program complied successfully and output verified .

**OUTPUT**

Graphical user interface, application, Teams

Description automatically generated

# **PROGRAM No:16 Date:11-11-2022**

**AIM**: Create database using SQLite and perform INSERT , SELECT , UPDATE , and Delete on SQLite database.

## Program Code:

**Activity.xml**

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

<RelativeLayout xmlns:android=["ht](http://schemas.android.com/apk/res/android)t[p://schemas.android.com/apk/res/android"](http://schemas.android.com/apk/res/android) xmlns:app=["ht](http://schemas.android.com/apk/res-auto)t[p://schemas.android.com/apk/res-auto"](http://schemas.android.com/apk/res-auto) xmlns:tools=["ht](http://schemas.android.com/tools)t[p://schemas.android.com/tools](http://schemas.android.com/tools)" android:layout\_width="match\_parent" android:layout\_height="match\_parent"

tools:context=".MainActivity" android:padding="10dp"

>

<TextView android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:text="Please enter the details below:" android:textSize="24dp" android:id="@+id/title"

/>

<EditText android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:id="@+id/edt1" android:hint="Name" android:textSize="24dp" android:inputType="textPersonName"

android:layout\_below="@+id/title"

/>

<EditText android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:id="@+id/edt2" android:hint="Contact" android:textSize="24dp" android:inputType="number" android:layout\_below="@+id/edt1"

/>

<EditText android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:id="@+id/edt3" android:hint="DOB" android:textSize="24dp" android:inputType="number" android:layout\_below="@+id/edt2"

/>

<Button

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content" android:id="@+id/b4" android:text="VIEW " android:textSize="24dp" android:layout\_below="@+id/b3"

/>

</RelativeLayout>

## DBHelper.java

package com.example.myapplication;

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

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

import androidx.annotation.Nullable;

public class DBHelper extends SQLiteOpenHelper { public DBHelper(@Nullable Context context){

super(context, "userdata.db",null,1);

}

@Override

public void onCreate(SQLiteDatabase DB) {

DB.execSQL("create Table userdetails(name TEXT primary key, contact TEXT , dob TEXT)");

}

@Override

public void onUpgrade(SQLiteDatabase DB, int i, int i1) { DB.execSQL("drop Table if exists userdetails");

}

public Boolean insertData(String name, String contact, String dob)

{

SQLiteDatabase DB= this.getWritableDatabase(); ContentValues contentValues=new ContentValues(); contentValues.put("name",name); contentValues.put("contact",contact); contentValues.put("dob",dob);

long result=DB.insert("userdetails",null,contentValues);

if(result==-1) return false;

else

return true;

}

public Boolean updateData(String name, String contact, String dob)

{

SQLiteDatabase DB= this.getWritableDatabase(); ContentValues contentValues=new ContentValues(); contentValues.put("contact",contact); contentValues.put("dob",dob);

Cursor cursor=DB.rawQuery("select \* from userdetails where name=?", new String[]

{name});

if(cursor.getCount()>0) {

long result = DB.update("userdetails", contentValues, "name=?", new String[]{name}); if (result == -1)

return false; else

return true;

}

else

{

return false;

}

}

public Boolean deleteData(String name)

{

SQLiteDatabase DB= this.getWritableDatabase();

Cursor cursor=DB.rawQuery("select \* from userdetails where name=?", new String[]

{name});

if(cursor.getCount()>0) {

long result = DB.delete("userdetails", "name=?", new String[]{name}); if (result == -1)

return false; else

return true;

}

else

{

return false;

}

}

public Cursor getData()

{

SQLiteDatabase DB= this.getWritableDatabase();

Cursor cursor=DB.rawQuery("select \* from userdetails",null); return cursor;

}

}

## MainActivity.java

package com.example.myapplication;

import androidx.appcompat.app.AlertDialog;

import androidx.appcompat.app.AppCompatActivity;

import android.database.Cursor; import android.os.Bundle;

import android.provider.ContactsContract; import android.view.View;

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

public class MainActivity extends AppCompatActivity { EditText edt1,edt2,edt3;

Button Insert,Update,Delete,View; DBHelper db;

@Override

protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.*activity\_main*); edt1=findViewById(R.id.*edt1*); edt2=findViewById(R.id.*edt2*); edt3=findViewById(R.id.*edt3*);

Insert =findViewById(R.id.*b1*); Update = findViewById(R.id.*b2*); Delete = findViewById(R.id.*b3*);

View =findViewById(R.id.*b4*); db=new DBHelper(this);

Insert.setOnClickListener(new View.OnClickListener() { @Override

public void onClick(android.view.View view){ String name= edt1.getText().toString(); String contact=edt2.getText().toString(); String dob= edt3.getText().toString();

boolean checkInsertData=db.insertData(name,contact,dob); if (checkInsertData==true)

Toast.*makeText*(MainActivity.this,"New entry inserted",Toast.*LENGTH\_LONG*).show();

else

Toast.*makeText*(MainActivity.this,"New entry Not inserted",Toast.*LENGTH\_LONG*).show();

}

});

Update.setOnClickListener(new View.OnClickListener() { @Override

public void onClick(android.view.View view) { String name= edt1.getText().toString(); String contact=edt2.getText().toString(); String dob= edt3.getText().toString();

boolean checkUpdateData=db.updateData(name,contact,dob); if(checkUpdateData==true)

Toast.*makeText*(MainActivity.this,"Entry updated",Toast.*LENGTH\_LONG*).show(); else

Toast.*makeText*(MainActivity.this,"Entry Not Updated",Toast.*LENGTH\_LONG*).show();

}

});

Delete.setOnClickListener(new View.OnClickListener() { @Override

public void onClick(android.view.View view) { String name= edt1.getText().toString();

boolean checkDeleteData= db.deleteData(name); if(checkDeleteData==true)

Toast.*makeText*(MainActivity.this,"Entry deleted",Toast.*LENGTH\_LONG*).show(); else

Toast.*makeText*(MainActivity.this,"Entry Not deleted",Toast.*LENGTH\_LONG*).show();

}

});

View.setOnClickListener(new View.OnClickListener() { @Override

public void onClick(android.view.View view) { Cursor res = db.getData();

if (res.getCount() == 0) { Toast.*makeText*(MainActivity.this, "No entry exists",

Toast.*LENGTH\_LONG*).show(); return;

}

StringBuffer buffer = new StringBuffer(); while (res.moveToNext()) {

buffer.append("name:" + res.getString(0) + "\n"); buffer.append("contact:" + res.getString(1) + "\n"); buffer.append("data of birth:" + res.getString(2) + "\n\n\n\n\n");

}

AlertDialog.Builder builder=new AlertDialog.Builder(MainActivity.this); builder.setCancelable(true);

builder.setTitle("User Enteries"); builder.setMessage(buffer.toString()); builder.show();

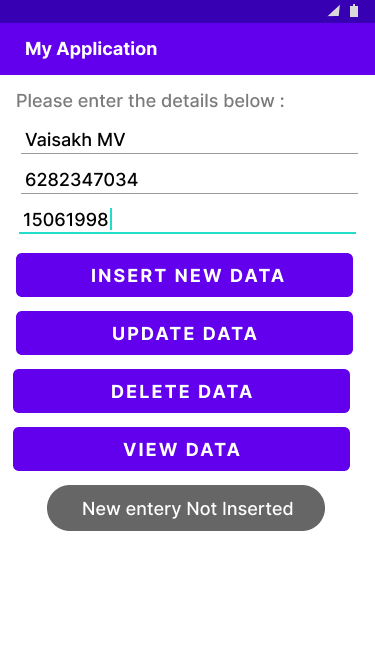
}

});

}

**Result** : Program complied successfully and output verified .

## OUTPUT

 Graphical user interface, text, application

Description automatically generated

Graphical user interface, text, application

Description automatically generated Graphical user interface, text, application

Description automatically generated

Text, letter

Description automatically generated