### PROGRAM NO: 01

<u>AIM:</u>Design a Login Form with username and password using Linear Layout and toast valid credentials.

DATE: 10-08-2022

#### Program code:

</LinearLayout>

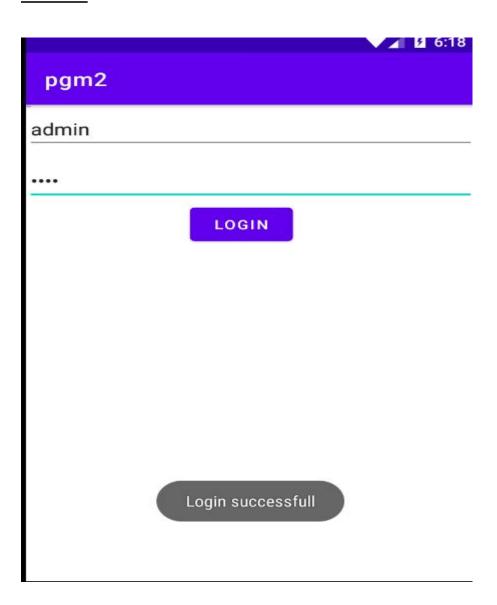
#### Activity.xml

```
<?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="wrap content"
    android:layout height="wrap content"
    android:text="LOGIN PAGE"
    android:textSize="30dp" />
  <EditText
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:hint="Enter ur username"
    android:id="@+id/btn1"
    android:layout marginTop="10dp"/>
  <EditText
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:hint="Enter ur password"
    android:layout marginTop="10dp"
    android:id="@+id/btn2"
    android:inputType="textPassword" />
  <Button
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="Login"
    android:id="@+id/et1"
    android:layout marginLeft="150dp" />
```

#### Mainactivity.xml

```
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 bnt1=findViewById(R.id.btn1);
    EditText bnt2=findViewById(R.id.btn2);
    Button button=findViewById(R.id.et1);
    button.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View view) {
         validate (bnt1.getText().toString(),bnt2.getText().toString());
       private void validate(String us,String p)
         if (us.equals("admin")&&p.equals("1234"))
Toast.makeText(getApplicationContext(), "successfull", Toast.LENGTH_LONG).show();
         else
Toast.makeText(getApplicationContext(),"Unsuccessfull",Toast.LENGTH_LONG).show();
    });
```

# **OUTPUT**



### PROGRAM No:02

<u>Aim</u>: Write a program that demonstrate Activity Life cycle.

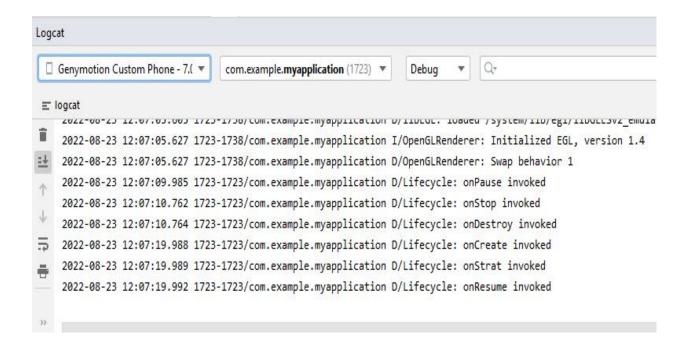
Date:16-08-2022

#### **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" />
</androidx.constraintlayout.widget.ConstraintLayout>
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","onStrat 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");
}
```

#### **OUTPUT**



PROGRAM No:03 Date:19-08-2022

<u>AIM</u>: Implementing basic arithmetic operation of a single calculator.

#### Program Code:

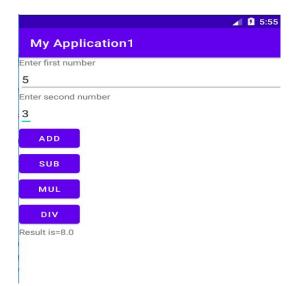
#### Activity main.xml

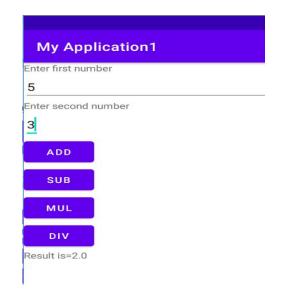
```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  xmlns:app="http://schemas.android.com/apk/res-auto"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout width="match parent"
  android:layout height="match parent"
  android:orientation="vertical"
  tools:context=".MainActivity">
  <TextView
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="Enter first number" />
  <EditText
    android:layout width="match parent"
    android:layout height="wrap content"
    android:id="@+id/text1"/>
  <TextView
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="Enter second number"/>
  <EditText
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:id="@+id/text2" />
  <LinearLayout
    android:layout width="wrap content"
    android:layout height="wrap content" />
  <Button
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:id="@+id/b1"
    android:text="ADD" />
  <Button
    android:layout width="wrap content"
    android:layout height="wrap content"
```

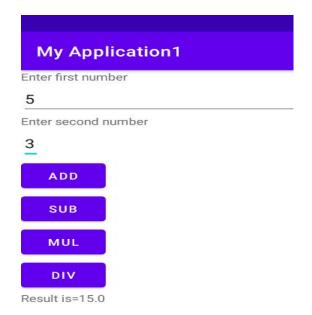
```
android:id="@+id/b2"
    android:text="SUB"/></LinearLayout>
Mainactivity.java
package com.example.myapplication1;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity {
  Button b,bb,bc,bd;
  EditText et1,et2;
  TextView tv1;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
    b=findViewById(R.id.b1);
    bb=findViewById(R.id.b2);
    bc=findViewById(R.id.b3);
    bd=findViewById(R.id.b4);
    et1=findViewById(R.id.et1);
    et2=findViewById(R.id.et2);
    tv1=findViewById(R.id.tv1);
    b.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View view) {
         Double a1=Double.parseDouble(et1.getText().toString());
         Double a2=Double.parseDouble(et2.getText().toString());
         Double r=a1+a2:
         tv1.setText("Result is="+String.valueOf(r));
       }
    });
    bb.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View view) {
         Double a1=Double.parseDouble(et1.getText().toString());
         Double a2=Double.parseDouble(et2.getText().toString());
         Double r=a1-a2;
```

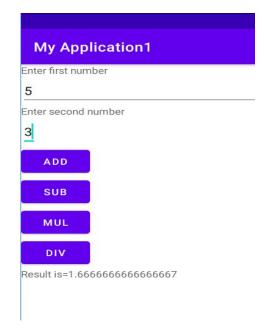
```
tv1.setText("Result is="+String.valueOf(r));
     }
   });
   bc.setOnClickListener(new View.OnClickListener() {
     @Override
     public void onClick(View view) {
        Double al=Double.parseDouble(et1.getText().toString());
        Double a2=Double.parseDouble(et2.getText().toString());
        Double r=a1*a2;
        tv1.setText("Result is="+String.valueOf(r));
     }
   });
   bd.setOnClickListener(new View.OnClickListener() {
     @Override
     public void onClick(View view) {
        Double a1=Double.parseDouble(et1.getText().toString());
        Double a2=Double.parseDouble(et2.getText().toString());
        Double r=a1/a2;
        tv1.setText("Result is="+String.valueOf(r));
   });
}
```

# **OUTPUT**









PROGRAM NO:04 Date:23-08-2022

Aim: Implement validation on various UI control.

#### **Program code:**

#### Activity\_main.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  xmlns:app="http://schemas.android.com/apk/res-auto"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout width="match parent"
  android:layout height="match parent"
  android:orientation="vertical"
  tools:context=".MainActivity">
  <TextView
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="REGISTRATION"
    android:textColor="@color/design default color error"
    android:textSize="30dp" />
  <EditText
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:hint="Name"
    android:id="@+id/name" />
  <EditText
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:hint="Mobile No:"
    android:id="@+id/mob" />
  <EditText
    android:layout width="wrap content"
    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/black" />
  <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/b1"
      android:text="Male" />
    <RadioButton
      android:layout width="wrap content"
      android:layout height="wrap content"
       android:id="@+id/b2"
      android:text="Female" />
  </RadioGroup>
  <Button
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="SUBMIT"
    android:id="@+id/button1"/>
  <CheckBox
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="I agree all terms and conditions"
    android:id="@+id/checkbox"/>
</LinearLayout>
Main Activity.java
package com.example.myapplication5;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Context;
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.mob);
    age=findViewById(R.id.age);
    radioGroup=findViewById(R.id.rg);
    male=findViewById(R.id.b1);
    female=findViewById(R.id.b2);
    checkbox=findViewById(R.id.checkbox);
    button=findViewById(R.id.button1);
    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 your
name", Toast. LENGTH LONG). show();
       return false;
    else if (mobileno.getText().toString().length()==0) {
       Toast.makeText(getApplicationContext(), "please enter your mobile
number", Toast. LENGTH LONG). show();
       return false;
    else if (mobileno.getText().toString().length()!=10){
       Toast.makeText(getApplicationContext(), "please enter your 10 digit number",
Toast. LENGTH LONG). show();
       return false;
```

```
else if (! male.isChecked() && ! female.isChecked()) {
       Toast.makeText(getApplicationContext(), "please enter your 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"?>
<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=".login">
  <TextView
    android:id="@+id/textView"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="Welcome to Login Page"
    tools:layout editor absoluteX="187dp"
    tools:layout editor absoluteY="66dp"/>
</androidx.constraintlayout.widget.ConstraintLayout>
Login.java
package com.example.myapplication;
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);
    }
}
```

# My Application5

# REGISTRATION

Sarang Raju

7012296803

22

# **GENDER**

- Male
- O Female

# SUBMIT

i agree all terms and conditions



PROGRAM NO:05 Date:26-08-2022

<u>Aim</u>: Design a registration activity and store registration details in local memory of phone using intents and Shared Preferences.

#### **Program code:**

#### Activity main.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:app="http://schemas.android.com/apk/res-auto"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout width="match parent"
  android:layout height="match parent"
  tools:context=".MainActivity"
  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.os.Bundle;
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.myapplication;
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);
    }
}
```

# **OUTPUT**

# My Application6

# Registration form

sarang

22

njatuvettysaru@gmail.com

njattuvety

male

mca

SUBMIT



PROGRAM No: 06 Date:30-08-2022

Aim: Design a simple Calculator using Grid Layout and Cascaded Linear Layout.

#### **Program Code:**

#### **Activity.xml:**

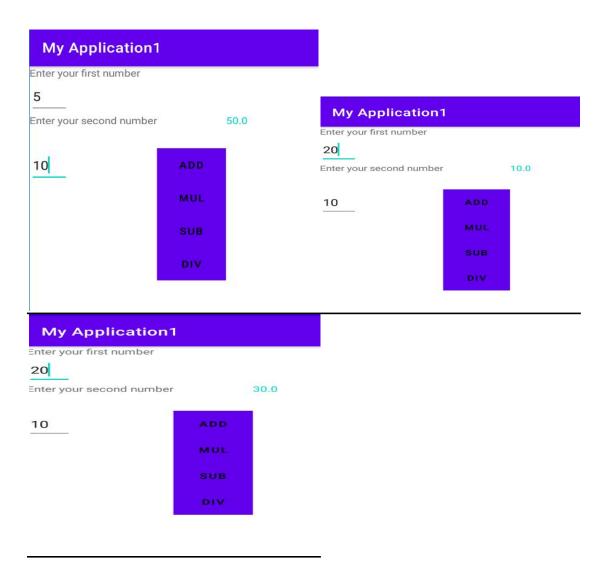
```
<?xml version="1.0" encoding="utf-8"?>
<GridLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  xmlns:app="http://schemas.android.com/apk/res-auto"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout width="match parent"
  android:layout height="match parent"
  tools:context=".MainActivity">
  <TextView
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="Enter your first number"
    android:layout row="0"
    android:layout column="0" />
  <EditText
    android:layout width="50dp"
    android:layout height="50dp"
    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 your second number"
    android:layout row="2"
    android:layout column="0"/>
  <EditText
    android:layout width="50dp"
    android:layout height="50dp"
    android:id="@+id/n2"
    android:layout row="3"
    android:layout column="0" />
  <LinearLayout
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:orientation="vertical">
```

```
<Button
    android:text="ADD"
    android:layout width="wrap content"
    android:layout height="wrap_content"
    android:layout row="4"
    android:layout column="0"
    android:textColor="@color/black"
    android:background="@color/design default color primary"
    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/black"
    android:background="@color/design default color primary"
    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="2"
    android:textColor="@color/black"
    android:background="@color/design default color primary"
    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/black"
    android:background="@color/design default color primary"
    android:id="@+id/div"/>
  </LinearLayout>
  <TextView
    android:hint="RESULT"
    android:layout width="70dp"
    android:layout height="50dp"
    android:layout row="2"
    android:layout column="2"
    android:id="@+id/result"
    android:textColor="@color/design default color secondary"/>
```

```
</GridLayout>
Mainactivity.java
package com.example.myapplication1;
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);
    final EditText a=findViewById(R.id.n1);
    final EditText b=findViewById(R.id.n2);
    Button add=findViewById(R.id.add);
    Button sub=findViewById(R.id.sub);
    Button mul=findViewById(R.id.mul);
    Button div=findViewBvId(R.id.div):
    final 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));
    });
} }
```

# **OUTPUT:**



PROGRAM No: 07 Date:02-09-2022

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

#### **Program Code:**

#### **Activity.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</pre>
        android:id="@+id/relativelayout"
        android:layout_width="match_parent"
        android:layout_height="wrap_content">
    <ImageView</pre>
            android:layout_width="match_parent"
            android:layout height="250dp"
            android:id="@+id/banner"
            android:src="@drawable/images1"
            android:scaleType="centerCrop"/>
        <ImageView</pre>
            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</pre>
            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="Thasni"
        android:ems="10"
        android:layout alignParentEnd="true"
        android:layout_marginEnd="55dp"
        android:id="@+id/textName"
        android:layout_alignBottom="@+id/banner"/>
</RelativeLayout>
<RelativeLayout</pre>
    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</pre>
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal"
        android:id="@+id/linearLayout2">
        <ImageView</pre>
            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>
```

### 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);
    }
}
```

# **OUTPUT:**



MARK.

iam inevitable

POST

Date:14-09-2022 PROGRAM No: 08

Aim: Develop an application that toggle image using frame Layout.

#### **Program Code:**

#### **Activity.xml:**

```
<FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  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="239dp"
    android:scaleType="centerCrop"
    android:src="@drawable/images1" /><!--Change image as per your name of image saved
in drawable-->
  <ImageView
    android:id="@+id/image2"
    android:layout width="match parent"
    android:layout height="239dp"
    android:scaleType="centerCrop"
    android:src="@drawable/image2" />
</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);

}
});
}
```

# **OUTPUT:**





PROGRAM NO:09 Date:16-09-2022

**<u>Aim:</u>** Develop application that works with Implicit intents .

#### **Program Code:**

#### **Activity.xml:**

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  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" />
  <Button
    android:id="@+id/btn1"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="click"/>
</LinearLayout>
```

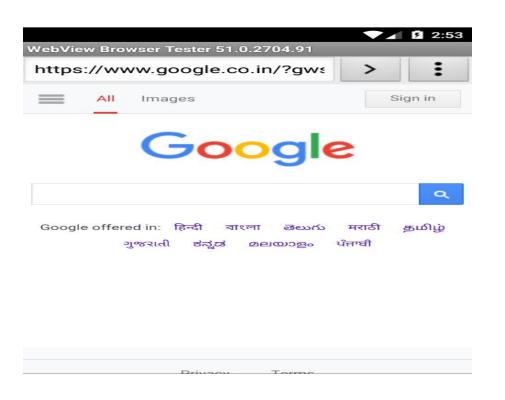
#### Mainactivity.java

```
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);
etl=findViewById(R.id.tl);
b1=findViewById(R.id.btnl);
b1.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        String url=etl.getText().toString();
        Intent i=new Intent(Intent.ACTION_VIEW, Uri.parse(url));
        startActivity(i);
    }
});
}
```





PROGRAM NO:10 Date:20-09-2022

Aim: Impleent option Menu to navigate to activities.

#### **Program code:**

## **Activitymain.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>
```

#### Mainactivity.java

```
package com.example.myapplication;
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;
import com.example.myapplication.R;
public class MainActivity extends AppCompatActivity {

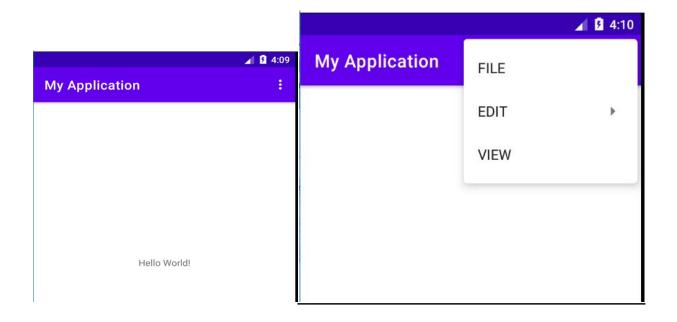
@Override
```

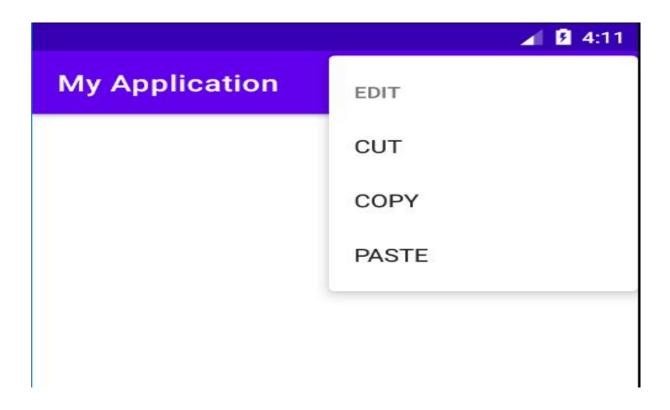
```
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
  @Override
  public boolean onCreateOptionsMenu(Menu menu) {
    getMenuInflater().inflate(R.menu.menu,menu);
    return true;
  @Override
  public boolean onOptionsItemSelected(@NonNull 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);
```

#### 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>
```

Result: Program complied successfully and output verified.





PROGRAM No: 11 Date:27-09-2022

Aim: Develop an application that users Array adapter with List View.

#### **Program Code:**

### MainActivity.java

```
package com.example.myapplication0;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Adapter;
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
import android.widget.ListView;
public class MainActivity extends AppCompatActivity {
  ListView 1;
  String [] p={"Rajendra Prasad(1884-1963)","Radhakrishnan(1888-1993)","Zakir
Husain(1894-1980)"};
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
```

```
l=(ListView)findViewById(R.id.lv1);
    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) {
                  startActivity(new Intent(MainActivity.this,MainActivity2.class));
            }
            else if(i==1) {
                  startActivity(new Intent(MainActivity.this,MainActivity2.class));
            }
        }
        }
    }
}
```

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

## My Application0

A.P.J Abdul Kalam

Sachin Tendulkar

Cristiano Ronaldo

# My Application0

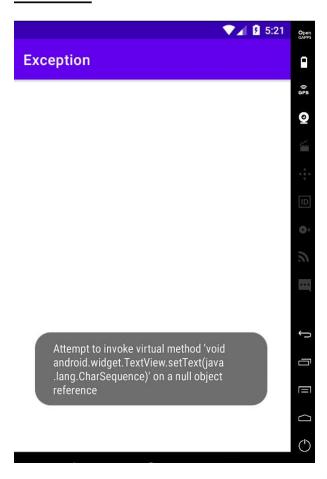
Sachin Tendulkar was the most complete batter of his time, the most prolific run-maker of all time, and arguably the biggest cricket icon the game has ever known. <u>Program No: 12</u> Date:12-10-2022

**<u>Aim</u>**: Perform exception handling

```
activity main.xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
  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:id="@+id/tv1" />
</RelativeLayout>
MainActivity.java
package com.example.exception;
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 compiled successfully and output verified.



<u>Program No: 13</u> Date:25-10-2022

**<u>Aim</u>**: Develop an application that use Grid Layout with images and display Toast on selection.

```
activity_main.xml
```

```
<?xml version="1.0" encoding="utf-8"?>
<GridLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
  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">
  <ImageView
    android:layout width="400dp"
    android:layout height="200dp"
    android:id="@+id/tea"
    android:src="@drawable/tea"
    android:scaleType="centerCrop"
    android:layout row="0"
    android:layout column="0" />
  <ImageView
    android:layout width="wrap content"
    android:layout height="250dp"
    android:layout column="0"
    android:scaleType="centerCrop"
    android:src="@drawable/coffee"
    android:id="@+id/coffee"
    android:layout row="1"/>
</GridLayout>
MainActivity.java
package com.example.gridimage;
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 tea, coffee;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
    tea=findViewById(R.id.tea);
    coffee=findViewById(R.id.coffee);
    tea.setOnClickListener(new View.OnClickListener() {
      @Override
      public void onClick(View view) {
         Toast.makeText(getApplicationContext(),"Tea",Toast.LENGTH_SHORT).show();
    });
    coffee.setOnClickListener(new View.OnClickListener() {
      @Override
      public void onClick(View view) {
         Toast.makeText(getApplicationContext(),"Coffee",Toast.LENGTH_SHORT).show();
    });
```

**<u>Result</u>**: Program compiled successfully and output verified.



<u>Program No: 14</u> Date:28-10-2022

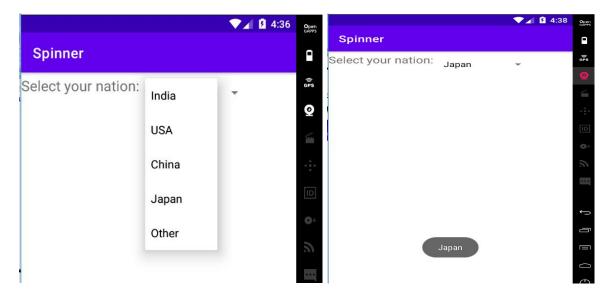
**<u>Aim</u>**: Develop an application that implements Spinner component and perform event handling.

```
activity_main.xml
```

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  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:textSize="20dp"
    android:text="Select your nation:">
  </TextView>
  <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 />
</LinearLayout>
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", "Japan", "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 on Item Selected (Adapter View <? > arg 0, View arg 1, int position, long id)
       Toast.makeText(getApplicationContext(),country[position],
Toast. LENGTH LONG). show();
    @Override
    public void onNothingSelected(AdapterView<?> adapterView) {
      // TODO Auto-generated method stub
}
```

**<u>Result</u>**: Program compiled successfully and output verified.



## Program No: 15

Date:04-11-2022

**<u>Aim</u>**: Implement Navigation drawer.

```
activity_main.xml
```

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.drawerlayout.widget.DrawerLayout
  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: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="GeeksforGeeks"
       android:textSize="18sp" />
  </LinearLayout>
  <com.google.android.material.navigation.NavigationView</p>
    android:layout width="wrap content"
    android:layout height="match parent"
    android:layout gravity="start"
    app:menu="@menu/navigation menu"/>
</androidx.drawerlayout.widget.DrawerLayout>
Navigation_menu.xml
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android">
  xmlns:tools="http://schemas.android.com/tools"
```

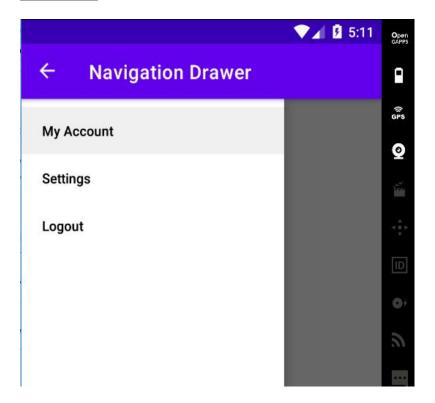
```
tools:ignore="HardcodedText">
  <item
    android:id="@+id/nav account"
    android:title="My Account" />
  <item
    android:id="@+id/nav settings"
    android:title="Settings" />
  <item
    android:id="@+id/nav logout"
    android:title="Logout" />
</menu>
Strings.xml
<resources>
  <string name="app name">Navigation Drawer</string>
  <string name="nav open">Open</string>
  <string name="nav close">Close</string>
</resources>
MainActivity.java
package com.example.navigationdrawer;
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);

drawerLayout.addDrawerListener(actionBarDrawerToggle);
    actionBarDrawerToggle.syncState();
    getSupportActionBar().setDisplayHomeAsUpEnabled(true);
}

@Override
public boolean onOptionsItemSelected(@NonNull MenuItem item) {
    if (actionBarDrawerToggle.onOptionsItemSelected(item)) {
        return true;
    }
    return super.onOptionsItemSelected(item);
}
```

**<u>Result</u>**: Program compiled successfully and output verified.



<u>Program No: 16</u> Date:11-11-2022

<u>Aim</u>: Create database using SQLite and perform INSERT, SELECT, UPDATE and DELETE on SQLite database

## **Program Code:**

## activity\_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
  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="match parent"
    android:layout height="wrap content"
    android:text="Please enter the details below:"
    android:textSize="24dp"
    android:id="@+id/texttitle"
    />
  <EditText
    android:id="@+id/et1"
    android:layout width="match parent"
    android:layout height="wrap content"
    android:hint="Name"
    android:textSize="24dp"
    android:inputType="textPersonName"
    android:layout below="@+id/texttitle"/>
  <EditText
    android:id="@+id/et2"
    android:layout width="match parent"
    android:layout height="wrap content"
    android:hint="Contact"
    android:textSize="24dp"
    android:inputType="number"
    android:layout below="@+id/et1"/>
  <EditText
    android:id="@+id/et3"
    android:layout width="match parent"
    android:layout height="wrap content"
```

```
android:hint="DOB"
    android:textSize="24dp"
    android:inputType="number"
    android:layout below="@+id/et2"/>
  <Button
    android:id="@+id/Insert"
    android:layout width="match parent"
    android:layout height="wrap content"
    android:textSize="24dp"
    android:text="Insert New Data"
    android:layout below="@+id/et3"/>
  <Button
    android:id="@+id/Update"
    android:layout width="match parent"
    android:layout height="wrap content"
    android:textSize="24dp"
    android:text="Update Data"
    android:layout below="@+id/Insert"/>
  <Button
    android:id="@+id/Delete"
    android:layout width="match parent"
    android:layout height="wrap content"
    android:textSize="24dp"
    android:text="Delete Data"
    android:layout below="@+id/Update"/>
  <Button
    android:id="@+id/View"
    android:layout width="match parent"
    android:layout height="wrap content"
    android:textSize="24dp"
    android:text="View Data"
    android:layout below="@+id/Delete"/>
</RelativeLayout>
DBHelper.java
package com.example.database;
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
DATE)");
  @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;
MainActivity4.java
package com.example.database;
import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;
import android.database.Cursor;
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 {
  EditText et1,et2,et3;
  Button Insert, Update, Delete, View;
  DBHelper db;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
    et1=findViewById(R.id.et1);
    et2=findViewById(R.id.et2);
    et3=findViewById(R.id.et3);
    Insert =findViewById(R.id.Insert);
    Update = findViewById(R.id.Update);
    Delete = findViewById(R.id.Delete);
    View = findViewById(R.id.View);
    db=new DBHelper(this);
    Insert.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(android.view.View view) {
         String name= et1.getText().toString();
         String contact=et2.getText().toString();
         String dob= et3.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= et1.getText().toString();
         String contact=et2.getText().toString();
         String dob= et3.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= et1.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\");
         AlertDialog.Builder builder=new AlertDialog.Builder(MainActivity.this);
         builder.setCancelable(true);
         builder.setTitle("User Enteries");
         builder.setMessage(buffer.toString());
         builder.show();
```

```
}
});
}
```

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

