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|  | **SREE NARAYANA GURUKULAM**  **COLLEGE OF ENGINEERING**  **KADAYIRUPPU, KOLENCHERY 682311** |

**---------------------------------------**

**LABORATORY RECORD**

**YEAR:** 2022 **TO** 2023

**NAME :** GOPIKA UDAYAN

**SEMESTER :** 3 **ROLL NO:** 16

**BRANCH :** COMPUTER APPLICATIONS

Certified that this is a Bonafide Record of Practical work done in partial fulfillment of the requirements for the award of the Degree in Master of Computer Applications of Sree Narayana Gurukulam College of Engineering.

Kadayiruppu

Date:

Head of the Department Course Instructor

Submitted for University Practical Examination

**Reg. No:** SNG21MCA-2016 **on\_\_\_\_\_\_\_\_\_\_\_**

External Examiner Internal Examiner

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**COURSE OUTCOME 1**

**PROGRAM 1**

**AIM**

Design a Login Form with username and password using Linear Layout and toast valid credentials.

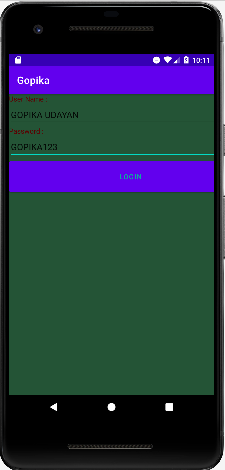
**MainActivity.java**

package com.example.firstapp;  
  
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 MainActivityextends AppCompatActivity{  
EditTextEditUser,EditPass;  
Button BtnLogin;  
  
@Override  
protected void onCreate(Bundle savedInstanceState) {  
super.onCreate(savedInstanceState);  
setContentView(R.layout.*activity\_main*);  
  
EditUser=findViewById(R.id.*txt\_uname*);  
EditPass=findViewById(R.id.*txt\_pwd*);  
BtnLogin=findViewById(R.id.*btn\_login*);  
 }  
  
public void login\_user(View view) {  
String s1=EditUser.getText().toString();  
String s2=EditPass.getText().toString();  
if (s1.equals("GOPIKAUDAYAN") &&s2.equals("GOPIKA123"))  
 {  
Toast.*makeText*(this, "LOGIN SUCCESS ", Toast.*LENGTH\_SHORT*).show();  
 }  
else  
{  
Toast.*makeText*(this, "Invalid Username or Password", Toast.*LENGTH\_SHORT*).show();  
  
 }  
  
 }  
}

**activity\_main.xml**

*<?*xml version="1.0" encoding="utf-8"*?>*<androidx.constraintlayout.widget.ConstraintLayoutxmlns:android="http://schemas.android.com/apk/res/android"  
xmlns:app="http://schemas.android.com/apk/res-auto"  
xmlns:tools="http://schemas.android.com/tools"  
android:layout\_width="match\_parent"  
android:layout\_height="match\_parent"  
tools:context=".MainActivity">  
  
<LinearLayout  
android:layout\_width="409dp"  
android:layout\_height="729dp"  
android:orientation="vertical"  
tools:layout\_editor\_absoluteX="1dp"  
tools:layout\_editor\_absoluteY="1dp">  
  
<TextView  
android:id="@+id/textView5"  
android:layout\_width="match\_parent"  
android:layout\_height="37dp"  
android:text="USERNAME"  
android:textSize="20dp"/>  
  
<EditText  
android:id="@+id/txt\_uname"  
android:layout\_width="match\_parent"  
android:layout\_height="wrap\_content"  
android:ems="10"  
android:hint="user name"  
android:inputType="textPersonName" />  
  
<TextView  
android:id="@+id/textView6"  
android:layout\_width="match\_parent"  
android:layout\_height="35dp"  
android:text="PASSWORD"  
android:textSize="20dp"/>  
  
<EditText  
android:id="@+id/txt\_pwd"  
android:layout\_width="match\_parent"  
android:layout\_height="wrap\_content"  
android:ems="10"  
android:hint="password"  
android:inputType="textPassword" />  
  
<Button  
android:id="@+id/btn\_login"  
android:layout\_width="match\_parent"  
android:layout\_height="wrap\_content"  
android:background="#1B0000"  
android:onClick="login\_user"  
android:text="LOGIN" />  
</LinearLayout>  
</androidx.constraintlayout.widget.ConstraintLayout>

**OUTPUT**

****

**PROGRAM 2**

**AIM**

Write a program that demonstrates Activity Lifecycle.

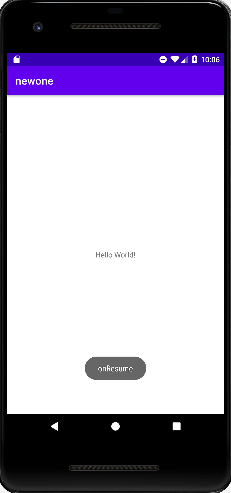
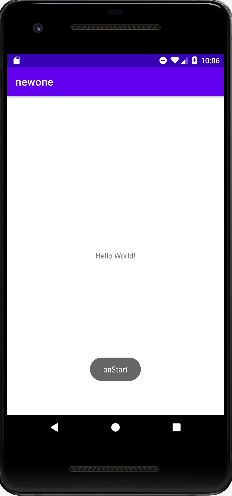
**MainActivity.java**

package com.example.lifecycle;  
import androidx.appcompat.app.AppCompatActivity;  
import android.os.Bundle;  
import android.widget.Toast;  
  
public class MainActivity extends AppCompatActivity {  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
super.onCreate(savedInstanceState);  
setContentView(R.layout.*activity\_main*);  
Toast.*makeText*(this,"onCreate", Toast.*LENGTH\_LONG*).show();  
 }  
  
 @Override  
 protected void onStart() {  
super.onStart();  
Toast.*makeText*(this,"onStart",Toast.*LENGTH\_LONG*).show();  
 }  
  
 @Override  
 protected void onResume() {  
super.onResume();  
Toast.*makeText*(this,"onResume",Toast.*LENGTH\_LONG*).show();  
 }  
  
 @Override  
 protected void onPause() {  
super.onPause();  
Toast.*makeText*(this,"onPause",Toast.*LENGTH\_LONG*).show();  
 }  
 @Override  
 protected void onStop() {  
super.onStop();  
Toast.*makeText*(this,"onStop",Toast.*LENGTH\_LONG*).show();  
 }  
 @Override  
 protected void onDestroy() {  
super.onDestroy();  
Toast.*makeText*(this,"onDestroy",Toast.*LENGTH\_LONG*).show();  
 }  
  
}

**activity\_main.xml**

*<?*xml version="1.0" encoding="utf-8"*?>*<androidx.constraintlayout.widget.ConstraintLayoutxmlns: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\_constraintEnd\_toEndOf="parent"  
app:layout\_constraintStart\_toStartOf="parent"  
app:layout\_constraintTop\_toTopOf="parent" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

**OUTPUT**

****

**PROGRAM 3**

**AIM**

Implementing basic arithmetic operations of a simple calculator.

**MainActivity.java**

package com.example.add;  
import androidx.appcompat.app.AppCompatActivity;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.TextView;  
import android.widget.Toast;  
public class MainActivity extends AppCompatActivity {  
EditText num1,num2;

Button btn1,btn2,btn3,btn4;  
TextView num3;  
@Override

protected void onCreate(Bundle savedInstanceState) {  
super.onCreate(savedInstanceState);  
setContentView(R.layout.*activity\_main*);  
num1 = findViewById(R.id.*txt1*);  
num2 = findViewById(R.id.*txt2*);  
 btn1 = findViewById(R.id.*butt*);

btn2 = findViewById(R.id.*butt2*);  
btn3 = findViewById(R.id.*butt3*);  
btn4 = findViewById(R.id.*butt4*);

num3 = findViewById(R.id.*txt3*);

}  
public void sum(View view) {  
int a = Integer.*parseInt*(num1.getText().toString());

int b = Integer.*parseInt*(num2.getText().toString());

int c = a + b;

num3.setText("Sum=" + c);

}  
 public void sub(View view) {  
 int a = Integer.*parseInt*(num1.getText().toString());  
 int b = Integer.*parseInt*(num2.getText().toString());

int v = a - b;

num3.setText("Sub=" + v);

}

public void mul(View view) {

int a = Integer.*parseInt*(num1.getText().toString());  
 int b = Integer.*parseInt*(num2.getText().toString());

int m = a \* b;

num3.setText("Mul=" + m);

}  
 public void div(View view) {  
int a = Integer.*parseInt*(num1.getText().toString());

int b = Integer.*parseInt*(num2.getText().toString());

int t = a / b;

num3.setText("div=" + t);

}

}

**activity\_main.xml**

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

<androidx.constraintlayout.widget.ConstraintLayoutxmlns:android="http://schemas.android.com/apk/res/android" xmlns:app="http://schemas.android.com/apk/res-auto"  
xmlns:tools="http://schemas.android.com/tools"  
android:layout\_width="match\_parent"  
android:layout\_height="match\_parent"  
tools:context=".MainActivity">  
<LinearLayout  
android:layout\_width="276dp"  
android:layout\_height="565dp"  
android:gravity="center"

android:orientation="vertical"  
app:layout\_constraintEnd\_toEndOf="parent"  
app:layout\_constraintHorizontal\_bias="0.496"  
app:layout\_constraintStart\_toStartOf="parent"  
tools:layout\_editor\_absoluteY="16dp">

<EditText

android:id="@+id/txt1"

android:layout\_width="match\_parent"  
android:layout\_height="wrap\_content"

android:ems="10"  
android:hint="Number 1"  
android:inputType="number"  
android:textColorHint="#101010"  
android:textSize="24sp" />  
<EditText

android:id="@+id/txt2"

android:layout\_width="match\_parent"

android:layout\_height="66dp"  
android:ems="10"  
android:hint="Number 2"  
android:inputType="number"

android:textColorHint="#050505"

android:textSize="24sp" />

<Button  
android:id="@+id/butt"  
android:layout\_width="112dp

android:layout\_height="wrap\_content"  
android:onClick="sum"

android:text="ADD" />  
<Button

android:id="@+id/butt2"

android:layout\_width="113dp"

android:layout\_height="wrap\_content"  
android:onClick="sub"

android:text="SUB" />  
<Button

android:id="@+id/butt3"

android:layout\_width="113dp"  
android:layout\_height="wrap\_content"

android:onClick="mul"

android:text="MUL" />  
<Button

android:id="@+id/butt4"

android:layout\_width="111dp"

android:layout\_height="wrap\_content"

android:onClick="div"

android:text="DIV" />  
<TextView

android:id="@+id/txt3"  
android:layout\_width="match\_parent"  
android:layout\_height="wrap\_content"

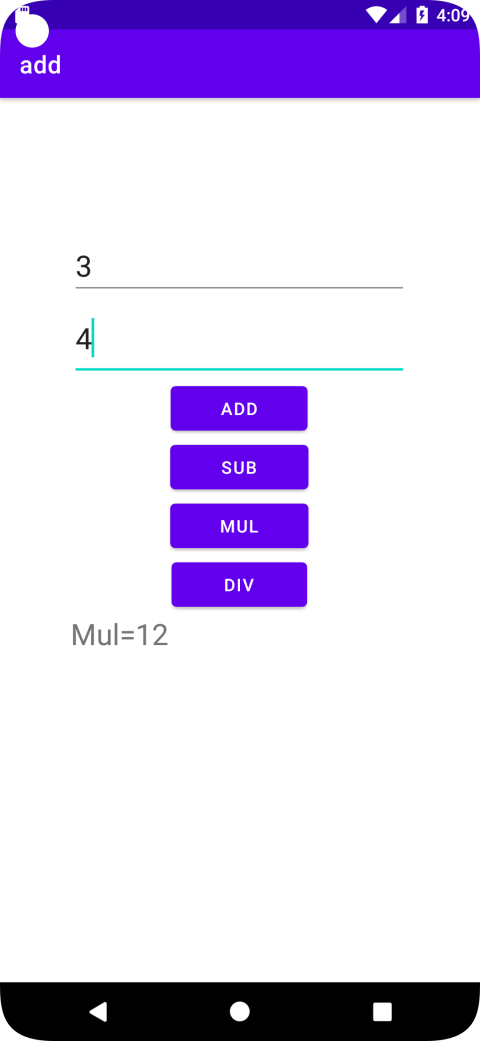
android:hint="Answer"

android:textColorHint="#000000"  
android:textSize="24sp" />

</LinearLayout>

</androidx.constraintlayout.widget.ConstraintLayout>

**OUTPUT**

****

**PROGRAM 4**

**AIM**

Implement validations on various UI controls.

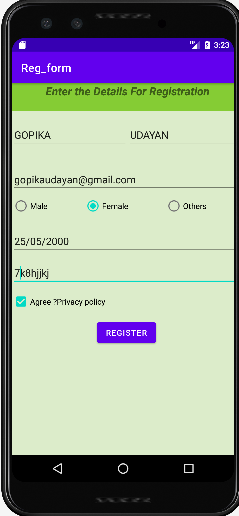
**MainActivity.java**

package com.example.reg\_form;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
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 {  
  
EditTextedtFirstName,edtSecondName,edtEmail,edtDate,edtPassword;  
 Button reg;  
RadioGroup sex;  
RadioButtonmale,female,other;  
CheckBoxch\_agree;  
  
booleanisAllFieldChecked = false;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
super.onCreate(savedInstanceState);  
setContentView(R.layout.*activity\_main*);  
edtFirstName = findViewById(R.id.*editTextTextFirstName*);  
edtSecondName = findViewById(R.id.*editTextTextSecondName*);  
edtEmail = findViewById(R.id.*editTextEmailAddress*);  
edtDate = findViewById(R.id.*editTextDate*);  
edtPassword = findViewById(R.id.*editTextPassword*);  
 sex = findViewById(R.id.*sex*);  
 male = findViewById(R.id.*male*);  
 female = findViewById(R.id.*female*);  
 other = findViewById(R.id.*other*);  
ch\_agree = findViewById(R.id.*ch\_agree*);  
  
 }  
  
  
 public void submit(View view) {  
isAllFieldChecked = CheckAllFields();  
 if(isAllFieldChecked) {  
Toast.*makeText*(this, "Successs", Toast.*LENGTH\_SHORT*).show();  
 }  
 }  
  
 private booleanCheckAllFields(){  
 if (edtFirstName.length()==0){  
edtFirstName.setError("first name is Required");  
 return false;  
 }  
 if (edtSecondName.length()==0){  
edtSecondName.setError("Second name is Required");  
 return false;  
 }  
 if (edtEmail.length()==0){  
edtEmail.setError("Email is Required");  
 return false;  
 }  
 else{  
 String s\_email=edtEmail.getText().toString();  
 String checkEmail="[a-zA-Z0-9.\_-]+@[a-z]+.+[a-z]+";  
 if(!s\_email.matches(checkEmail)){  
edtEmail.setError("Invalid Email");  
 return false;  
 }  
 }  
 if (sex.getCheckedRadioButtonId() == -1){  
other.setError("Select Gender");  
other.requestFocus();  
 return false;  
 }  
  
  
 if (edtDate.length()==0){  
edtDate.setError("Dob is Required");  
 return false;  
 }  
 if (edtPassword.length()==0){  
edtPassword.setError("Password is Required");  
 return false;  
 }  
 else if (edtPassword.length()<8){  
edtPassword.setError("Password must be minimum 8 characters .... ");  
 return false;  
  
 }  
  
 if (!ch\_agree.isChecked()){  
ch\_agree.setError("Please Agree...");  
ch\_agree.requestFocus();  
 return false;  
 }  
  
 return true;  
  
 }  
}

**activity\_main.xml**

*<?*xml version="1.0" encoding="utf-8"*?>*<androidx.constraintlayout.widget.ConstraintLayoutxmlns:android="http://schemas.android.com/apk/res/android"  
xmlns:app="http://schemas.android.com/apk/res-auto"  
xmlns:tools="http://schemas.android.com/tools"  
android:layout\_width="match\_parent"  
android:layout\_height="match\_parent"  
android:background="#DCECCA"  
tools:context=".MainActivity">  
  
<LinearLayout  
android:layout\_width="409dp"  
android:layout\_height="729dp"  
android:orientation="vertical"  
tools:layout\_editor\_absoluteX="1dp"  
tools:layout\_editor\_absoluteY="1dp">  
  
<LinearLayout  
android:layout\_width="match\_parent"  
android:layout\_height="69dp"  
android:orientation="vertical">  
  
<TextView  
android:id="@+id/textView"  
android:layout\_width="match\_parent"  
android:layout\_height="49dp"  
android:background="#85CC34"  
android:fontFamily="sans-serif"  
android:text="Enter the Details For Registration"  
android:textSize="20dp"  
android:textStyle="bold|italic"  
android:textAlignment="center"/>  
</LinearLayout>  
  
<LinearLayout  
android:layout\_width="match\_parent"  
android:layout\_height="79dp"  
android:orientation="vertical">  
  
<LinearLayout  
android:layout\_width="match\_parent"  
android:layout\_height="58dp"  
android:orientation="horizontal">  
  
<EditText  
android:id="@+id/editTextTextFirstName"  
android:layout\_width="wrap\_content"  
android:layout\_height="wrap\_content"  
android:layout\_weight="1"  
android:ems="10"  
android:hint="First Name"  
android:inputType="textPersonName" />  
  
<EditText  
android:id="@+id/editTextTextSecondName"  
android:layout\_width="wrap\_content"  
android:layout\_height="wrap\_content"  
android:layout\_weight="1"  
android:ems="10"  
android:hint="Second Name"  
android:inputType="textPersonName" />  
</LinearLayout>  
</LinearLayout>  
  
<LinearLayout  
android:layout\_width="match\_parent"  
android:layout\_height="wrap\_content"  
android:orientation="vertical">  
  
<EditText  
android:id="@+id/editTextEmailAddress"  
android:layout\_width="match\_parent"  
android:layout\_height="wrap\_content"  
android:ems="10"  
android:hint="abcde@gmail.com"  
android:inputType="textEmailAddress" />  
</LinearLayout>  
  
  
<LinearLayout  
android:layout\_width="match\_parent"  
android:layout\_height="64dp"  
android:orientation="horizontal">  
  
<RadioGroup  
android:id="@+id/sex"  
android:layout\_width="match\_parent"  
android:layout\_height="match\_parent"  
android:orientation="horizontal">  
  
<RadioButton  
android:id="@+id/male"  
android:layout\_width="wrap\_content"  
android:layout\_height="wrap\_content"  
android:layout\_weight="1"  
android:checked="false"  
android:duplicateParentState="true"  
android:text="Male" />  
  
<RadioButton  
android:id="@+id/female"  
android:layout\_width="wrap\_content"  
android:layout\_height="wrap\_content"  
android:layout\_weight="1"  
android:text="Female" />  
  
<RadioButton  
android:id="@+id/other"  
android:layout\_width="wrap\_content"  
android:layout\_height="wrap\_content"  
android:layout\_weight="1"  
android:text="Others" />  
  
</RadioGroup>  
</LinearLayout>  
  
<LinearLayout  
android:layout\_width="match\_parent"  
android:layout\_height="56dp"  
android:orientation="vertical">  
  
<EditText  
android:id="@+id/editTextDate"  
android:layout\_width="match\_parent"  
android:layout\_height="wrap\_content"  
android:ems="10"  
android:hint="DD/MM/YYYY DOB here "  
android:inputType="date" />  
</LinearLayout>  
  
<LinearLayout  
android:layout\_width="match\_parent"  
android:layout\_height="49dp"  
android:orientation="vertical">  
  
<EditText  
android:id="@+id/editTextPassword"  
android:layout\_width="match\_parent"  
android:layout\_height="wrap\_content"  
android:ems="10"  
android:hint="Enter Password"  
android:inputType="textPersonName" />  
</LinearLayout>  
  
<LinearLayout  
android:layout\_width="match\_parent"  
android:layout\_height="55dp"  
android:orientation="vertical">  
  
<CheckBox  
android:id="@+id/ch\_agree"  
android:layout\_width="match\_parent"  
android:layout\_height="wrap\_content"  
android:text="Agree ?Privacy policy" />  
</LinearLayout>  
  
<LinearLayout  
android:layout\_width="match\_parent"  
android:layout\_height="56dp"  
android:orientation="vertical">  
  
<Button  
android:id="@+id/reg"  
android:layout\_width="wrap\_content"  
android:layout\_height="wrap\_content"  
android:insetLeft="150dp"  
android:onClick="submit"  
android:text="REGISTER"  
tools:visibility="visible" />  
</LinearLayout>  
  
</LinearLayout>  
</androidx.constraintlayout.widget.ConstraintLayout>

**OUTPUT**

****

**COURSE OUTCOME 2**

**PROGRAM 5**

**AIM**

Design a registration activity and store registration details in local memory of

phone using Intents and Shared Preferences

**PAGE 1**

**activity\_main.xml**

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

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

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".MainActivity">

<LinearLayout

android:layout\_width="409dp"

android:layout\_height="729dp"

android:orientation="vertical"

tools:layout\_editor\_absoluteX="1dp"

tools:layout\_editor\_absoluteY="1dp">

<TextView

android:id="@+id/textView"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="ENTER THE DETAILS"

android:textSize="30dp"

android:textStyle="italic"

android:background="@color/teal\_700"

android:textColor="@color/white"

android:gravity="center"/>

<EditText

android:id="@+id/name"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:inputType="textPersonName"

android:hint="NAME:"

android:textColorHint="@color/white"

android:background="@color/teal\_200"

android:layout\_margin="30dp"

android:padding="15dp"

/>

<EditText

android:id="@+id/email"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:inputType="textPersonName"

android:hint="EMAIL\_ID:"

android:textColorHint="@color/white"

android:background="@color/teal\_200"

android:layout\_margin="30dp"

android:padding="15dp"/>

<EditText

android:id="@+id/location"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:inputType="textPersonName"

android:hint="LOCATION:"

android:textColorHint="@color/white"

android:background="@color/teal\_200"

android:layout\_margin="30dp"

android:padding="15dp"/>

<Button

android:id="@+id/button"

android:layout\_width="115dp"

android:layout\_height="wrap\_content"

android:layout\_gravity="center"

android:layout\_margin="30dp"

android:backgroundTint="@color/teal\_700"

android:onClick="reg"

android:padding="15dp"

android:text="Button" />

</LinearLayout>

</androidx.constraintlayout.widget.ConstraintLayout>

**MainActivity.java**

package com.example.exam\_shared\_preference\_and\_intent;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.content.SharedPreferences;

import android.os.Bundle;

import android.view.View;

import android.widget.EditText;

import android.widget.TextView;

import android.widget.Toast;

public class MainActivityextends AppCompatActivity {

EditTextname,email,location;

SharedPreferencessp;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

name=findViewById(R.id.name);

email=findViewById(R.id.email);

location=findViewById(R.id.location);

sp=getSharedPreferences("register",MODE\_MULTI\_PROCESS);

}

public void reg(View view){

Toast.makeText(this,"REGISTERED SUCCESSFULLY",Toast.LENGTH\_SHORT).show();

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

String val1=name.getText().toString();

String val2=email.getText().toString();

i.putExtra("name",val1);

i.putExtra("email",val2);

SharedPreferences.Editor ed=sp.edit();

ed.putString("location",location.getText().toString());

ed.commit();

startActivity(i);

}

}

**PAGE 2**

**activity\_main.xml**

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

<androidx.constraintlayout.widget.ConstraintLayoutxmlns: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">

<LinearLayout

android:layout\_width="409dp"

android:layout\_height="729dp"

android:orientation="vertical"

tools:layout\_editor\_absoluteX="1dp"

tools:layout\_editor\_absoluteY="1dp"

tools:ignore="MissingConstraints">

<TextView

android:id="@+id/textView2"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="........." />

<TextView

android:id="@+id/n1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="NAME" />

<TextView

android:id="@+id/e1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="EMAIL" />

<TextView

android:id="@+id/l1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="LOCATION" />

</LinearLayout>

</androidx.constraintlayout.widget.ConstraintLayout>

**MainActivity.java**

package com.example.exam\_shared\_preference\_and\_intent;

import androidx.appcompat.app.AppCompatActivity;

import android.annotation.SuppressLint;

import android.content.Intent;

import android.content.SharedPreferences;

import android.os.Bundle;

import android.widget.TextView;

public class MainActivity2 extends AppCompatActivity {

TextViewt1,t2,t3;

SharedPreferencessp;

@SuppressLint("MissingInflatedId")

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main2);

t1=findViewById(R.id.n1);

t2=findViewById(R.id.e1);

t3=findViewById(R.id.l1);

sp=getSharedPreferences("register",MODE\_PRIVATE);

Intent intent=getIntent();

String val1=intent.getStringExtra("name");

String val2=intent.getStringExtra("email");

String val3=sp.getString("location","");

t1.setText("NAME"+val1);

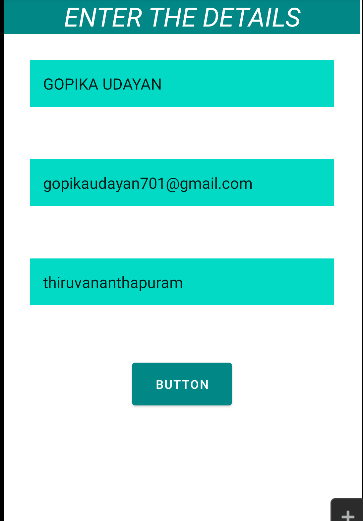
t2.setText("EMAIL:"+val2);

t3.setText("locATion"+val3);

}

}

**OUTPUT**

****

**PROGRAM 6**

**AIM**

Design a simple Calculator using GridLayout and Cascaded LinearLayout

**activity\_main.xml**

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

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

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:gravity="center"

tools:context=".MainActivity">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="vertical">

<Space

android:layout\_width="match\_parent"

android:layout\_height="24dp" />

<EditText

android:id="@+id/editTextTextPersonName"

android:layout\_width="match\_parent"

android:layout\_height="100dp"

android:ems="10"

android:inputType="textPersonName"

android:textSize="50dp" />

<Space

android:layout\_width="match\_parent"

android:layout\_height="10dp" />

</LinearLayout>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:orientation="vertical">

<androidx.gridlayout.widget.GridLayout

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

app:rowCount="5">

<Button

android:id="@+id/button"

android:layout\_width="wrap\_content"

android:layout\_height="70dp"

android:layout\_margin="5dp"

android:text="C"

android:textSize="24sp"

app:layout\_column="0"

app:layout\_row="0" />

<Button

android:id="@+id/button2"

android:layout\_width="wrap\_content"

android:layout\_height="70dp"

android:layout\_margin="5dp"

android:text="%"

android:textSize="24sp"

app:layout\_column="1"

app:layout\_row="0" />

<Button

android:id="@+id/button3"

android:layout\_width="wrap\_content"

android:layout\_height="70dp"

android:layout\_margin="5dp"

android:text="b"

android:textSize="24sp"

app:layout\_column="2"

app:layout\_row="0" />

<Button

android:id="@+id/button4"

android:layout\_width="wrap\_content"

android:layout\_height="70dp"

android:layout\_margin="5dp"

android:text="/"

android:textSize="24sp"

app:layout\_column="3"

app:layout\_row="0" />

<Button

android:id="@+id/button5"

android:layout\_width="wrap\_content"

android:layout\_height="70dp"

android:layout\_margin="5dp"

android:text="7"

android:textSize="24sp"

app:layout\_column="0"

app:layout\_row="1" />

<Button

android:id="@+id/button6"

android:layout\_width="wrap\_content"

android:layout\_height="70dp"

android:layout\_margin="5dp"

android:text="8"

android:textSize="24sp"

app:layout\_column="1"

app:layout\_row="1" />

<Button

android:id="@+id/button7"

android:layout\_width="wrap\_content"

android:layout\_height="70dp"

android:layout\_margin="5dp"

android:text="9"

android:textSize="24sp"

app:layout\_column="2"

app:layout\_row="1" />

<Button

android:id="@+id/button8"

android:layout\_width="wrap\_content"

android:layout\_height="70dp"

android:layout\_margin="5dp"

android:text="\*"

android:textSize="24sp"

app:layout\_column="3"

app:layout\_row="1" />

<Button

android:id="@+id/button9"

android:layout\_width="wrap\_content"

android:layout\_height="70dp"

android:layout\_margin="5dp"

android:text="4"

android:textSize="24sp"

app:layout\_column="0"

app:layout\_row="2" />

<Button

android:id="@+id/button10"

android:layout\_width="wrap\_content"

android:layout\_height="70dp"

android:layout\_margin="5dp"

android:text="5"

android:textSize="24sp"

app:layout\_column="1"

app:layout\_row="2" />

<Button

android:id="@+id/button11"

android:layout\_width="wrap\_content"

android:layout\_height="70dp"

android:layout\_margin="5dp"

android:text="6"

android:textSize="24sp"

app:layout\_column="2"

app:layout\_row="2" />

<Button

android:id="@+id/button12"

android:layout\_width="wrap\_content"

android:layout\_height="70dp"

android:layout\_margin="5dp"

android:text="-"

android:textSize="24sp"

app:layout\_column="3"

app:layout\_row="2" />

<Button

android:id="@+id/button13"

android:layout\_width="wrap\_content"

android:layout\_height="70dp"

android:layout\_margin="5dp"

android:text="1"

android:textSize="24sp"

app:layout\_column="0"

app:layout\_row="3" />

<Button

android:id="@+id/button14"

android:layout\_width="wrap\_content"

android:layout\_height="70dp"

android:layout\_margin="5dp"

android:text="2"

android:textSize="24sp"

app:layout\_column="1"

app:layout\_row="3" />

<Button

android:id="@+id/button15"

android:layout\_width="wrap\_content"

android:layout\_height="70dp"

android:layout\_margin="5dp"

android:text="3"

android:textSize="24sp"

app:layout\_column="2"

app:layout\_row="3" />

<Button

android:id="@+id/button16"

android:layout\_width="wrap\_content"

android:layout\_height="70dp"

android:layout\_margin="5dp"

android:text="+"

android:textSize="24sp"

app:layout\_column="3"

app:layout\_row="3" />

<Button

android:id="@+id/button17"

android:layout\_width="wrap\_content"

android:layout\_height="70dp"

android:layout\_margin="5dp"

android:text="00"

android:textSize="24sp"

app:layout\_column="0"

app:layout\_row="4" />

<Button

android:id="@+id/button18"

android:layout\_width="wrap\_content"

android:layout\_height="70dp"

android:layout\_margin="5dp"

android:text="0"

android:textSize="24sp"

app:layout\_column="1"

app:layout\_row="4" />

<Button

android:id="@+id/button19"

android:layout\_width="wrap\_content"

android:layout\_height="70dp"

android:layout\_margin="5dp"

android:text="."

android:textSize="24sp"

app:layout\_column="2"

app:layout\_row="4" />

<Button

android:id="@+id/button20"

android:layout\_width="wrap\_content"

android:layout\_height="70dp"

android:layout\_margin="5dp"

android:text="="

android:textSize="24sp"

app:layout\_column="3"

app:layout\_row="4" />

</androidx.gridlayout.widget.GridLayout>

</LinearLayout>

</LinearLayout>

</LinearLayout>

**MainActivity.java**

package com.example.fullcalculator;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

public class MainActivity extends AppCompatActivity implements View.OnClickListener {

EditText number;

double num1=0;

double num2=0;

String op="";

Button b1,b2,b3,b4,b5,b6,b7,b8,b9,b0,b00,bdot,bsum,bsub,bmulti,bdiv,beq,bc;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

b0=findViewById(R.id.button18);

b0=findViewById(R.id.button18);

bdot=findViewById(R.id.button19);

b00=findViewById(R.id.button17);

b1=findViewById(R.id.button13);

b2=findViewById(R.id.button14);

b3=findViewById(R.id.button15);

b4=findViewById(R.id.button9);

b5=findViewById(R.id.button10);

b6=findViewById(R.id.button11);

b7=findViewById(R.id.button5);

b8=findViewById(R.id.button6);

b9=findViewById(R.id.button7);

bsum=findViewById(R.id.button16);

bsub=findViewById(R.id.button12);

bmulti=findViewById(R.id.button8);

bdiv=findViewById(R.id.button4);

beq=findViewById(R.id.button20);

bc=findViewById(R.id.button);

number=findViewById(R.id.editTextTextPersonName);

b1.setOnClickListener(this);

bdot.setOnClickListener(this);

b0.setOnClickListener(this);

b00.setOnClickListener(this);

b2.setOnClickListener(this);

b3.setOnClickListener(this);

b4.setOnClickListener(this);

b5.setOnClickListener(this);

b6.setOnClickListener(this);

b7.setOnClickListener(this);

b8.setOnClickListener(this);

b9.setOnClickListener(this);

bsub.setOnClickListener(this);

bsum.setOnClickListener(this);

bc.setOnClickListener(this);

bmulti.setOnClickListener(this);

bdiv.setOnClickListener(this);

beq.setOnClickListener(this);

}

@Override

public void onClick(View view) {

Button b=(Button) view;

if(view==bc){

number.setText("");

op="";

}

else if(view==bsum||view==bsub||view==bmulti||view==bdiv){

num1=Integer.parseInt(number.getText().toString());

op=b.getText().toString();

number.setText("");

}

else if(view==beq)

{

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

if(op.equals("+"))

{

number.setText(num1+num2+"");

}

else if(op.equals("-"))

{

number.setText(num1-num2+"");

}

else if(op.equals("\*"))

{

number.setText(num1\*num2+"");

}

else if(op.equals("/")){

number.setText(num1/num2+"");

}

}

else {

String s = number.getText().toString();

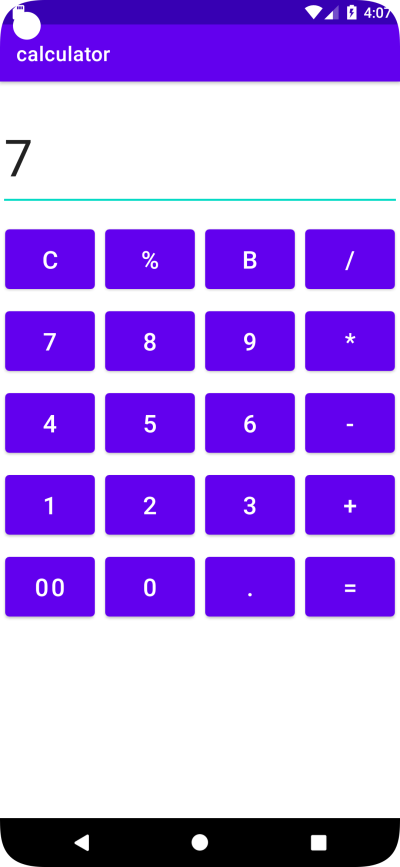
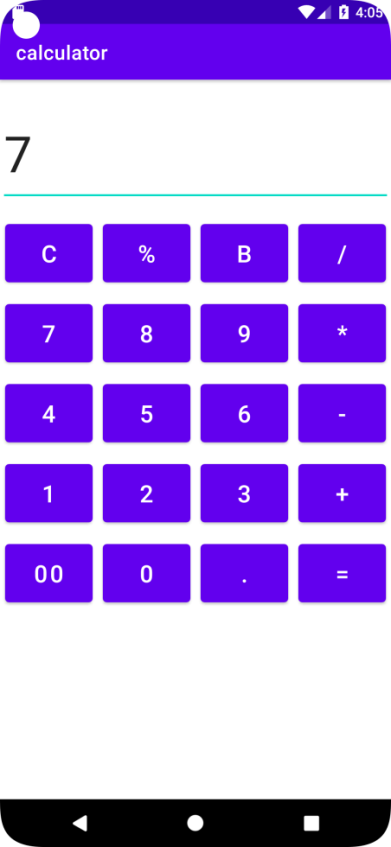
number.setText(s + b.getText().toString());

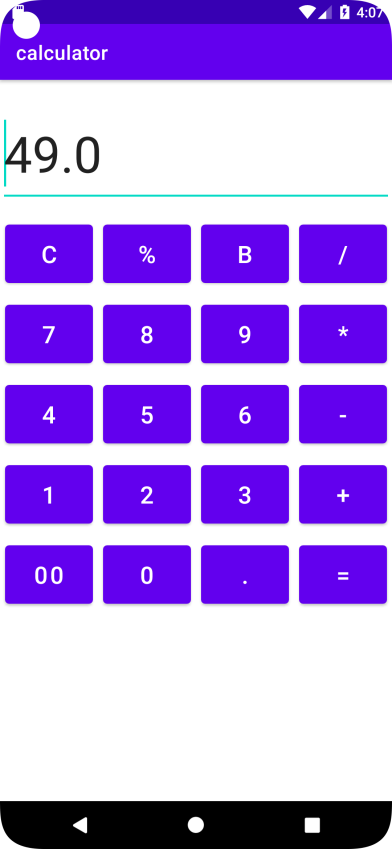
}

}

}

**OUTPUT**





**PROGRAM 7**

**AIM**

Create a Facebook page using RelativeLayout; set properties using .xml file

**activity\_main.xml**

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

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

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".MainActivity"

android:background="#3a589e">

<ImageView

android:id="@+id/imageView"

android:layout\_width="match\_parent"

android:layout\_height="254dp"

app:srcCompat="@drawable/download" />

<EditText

android:id="@+id/editTextTextPersonName"

android:layout\_width="310dp"

android:layout\_height="59dp"

android:layout\_below="@id/imageView"

android:layout\_centerHorizontal="true"

android:ems="10"

android:hint="Username"

android:textColorHint="#ffffff"

android:inputType="textPersonName" />

<EditText

android:id="@+id/editTextTextPersonName2"

android:layout\_width="309dp"

android:layout\_height="66dp"

android:layout\_below="@id/editTextTextPersonName"

android:layout\_centerHorizontal="true"

android:ems="10"

android:hint="Password"

android:textColorHint="#ffffff"

android:inputType="textPersonName" />

<Button

android:id="@+id/button"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_below="@id/editTextTextPersonName2"

android:layout\_centerHorizontal="true"

android:backgroundTint="#03AC13"

android:text="Login" />

</RelativeLayout>

**MainActivity.java**

package com.example.facebook;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

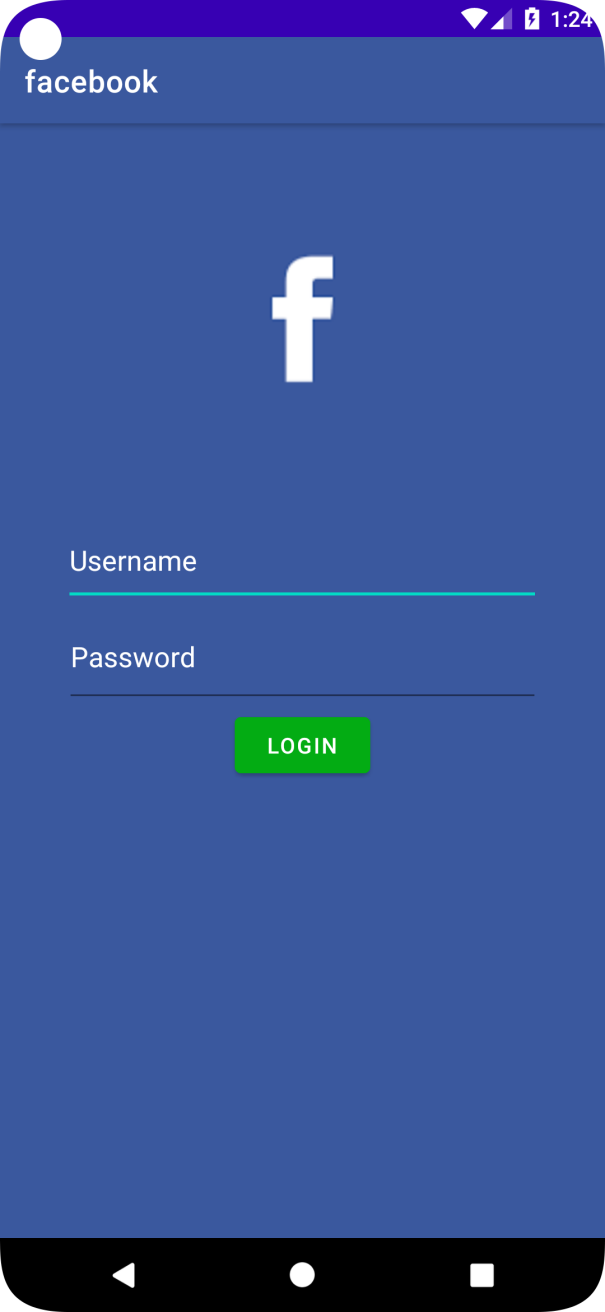
super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

}

}

**OUTPUT**



**PROGRAM 8**

**AIM**

Develop an application that toggles image using FrameLayout

**activity\_main.xml**

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

<LinearLayoutxmlns: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">

<ImageView

android:id="@+id/imageView3"

android:layout\_width="366dp"

android:layout\_height="297dp"

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

<ImageView

android:id="@+id/imageView4"

android:layout\_width="362dp"

android:layout\_height="301dp"

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

</LinearLayout>

**MainActivity.java**

package com.example.imagetoggle;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.ImageView;

public class MainActivity extends AppCompatActivity implements View.OnClickListener{

ImageViewimg,img2;

@Override

protected void onCreate(Bundle savedInstanceState){

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

img=findViewById(R.id.imageView3);

img2=findViewById(R.id.imageView4);

img.setOnClickListener(this);

img2.setOnClickListener(this);

}

public void onClick(View v){

if(v==img){

img.setVisibility(View.GONE);

img2.setVisibility(View.VISIBLE);

}

else{

img2.setVisibility(View.GONE);

img.setVisibility(View.VISIBLE);

}

}

}

**OUTPUT**



**COURSE OUTCOME 3**

**PROGRAM 9**

**AIM**

Implement Intent to navigate between multiple activities

**PAGE 1**

**activity\_main.xml**

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

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

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".MainActivity">

<Button

android:id="@+id/button"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Next Page"

android:onClick="click"

tools:layout\_editor\_absoluteX="144dp"

tools:layout\_editor\_absoluteY="157dp"

tools:ignore="MissingConstraints" />

</androidx.constraintlayout.widget.ConstraintLayout>

**MainActivity.java**

package com.example.intent;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

public class MainActivity extends AppCompatActivity {

Button b1;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

b1=findViewById(R.id.button);

}

public void click(View view) {

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

startActivity(i);

}

}

**PAGE 2**

**activity\_main.xml**

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

<androidx.constraintlayout.widget.ConstraintLayoutSxmlns: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">

<Button

android:id="@+id/button2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="previous page"

android:onClick="click"

tools:layout\_editor\_absoluteX="149dp"

tools:layout\_editor\_absoluteY="113dp" />

</androidx.constraintlayout.widget.ConstraintLayout>

**MainActivity.java**

package com.example.intent;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

public class MainActivity2 extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main2);

}

public void click(View view) {

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

startActivity(i);

}

}

**OUTPUT**





**PROGRAM 10**

**AIM**

Implement Options Menu to navigate to activities

**activity\_main.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="DEPARTMENT">

<menu>

<item

android:id="@+id/inside1"

android:title="MCA" />

<item

android:id="@+id/inside2"

android:title="MBA" />

</menu>

</item>

<item

android:id="@+id/item2"

android:title="STUDENTS" />

</menu>

**activity\_main.xml**

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

<androidx.constraintlayout.widget.ConstraintLayoutxmlns: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\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

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

</androidx.constraintlayout.widget.ConstraintLayout>

**MainActivity.java**

package com.example.menu;

import androidx.annotation.NonNull;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.Menu;

import android.view.MenuInflater;

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 booleanonCreateOptionsMenu(Menu menu) {

MenuInflater inflater=getMenuInflater();

inflater.inflate(R.menu.menu,menu);

return true;

}

@Override

public booleanonOptionsItemSelected(@NonNull MenuItem item) {

switch (item.getItemId()){

case R.id.inside1:

Toast.makeText(this,"mca department",Toast.LENGTH\_LONG).show();

break;

case R.id.inside2:

Toast.makeText(this, "mba department", Toast.LENGTH\_SHORT).show();

break;

case R.id.item2:

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

break;

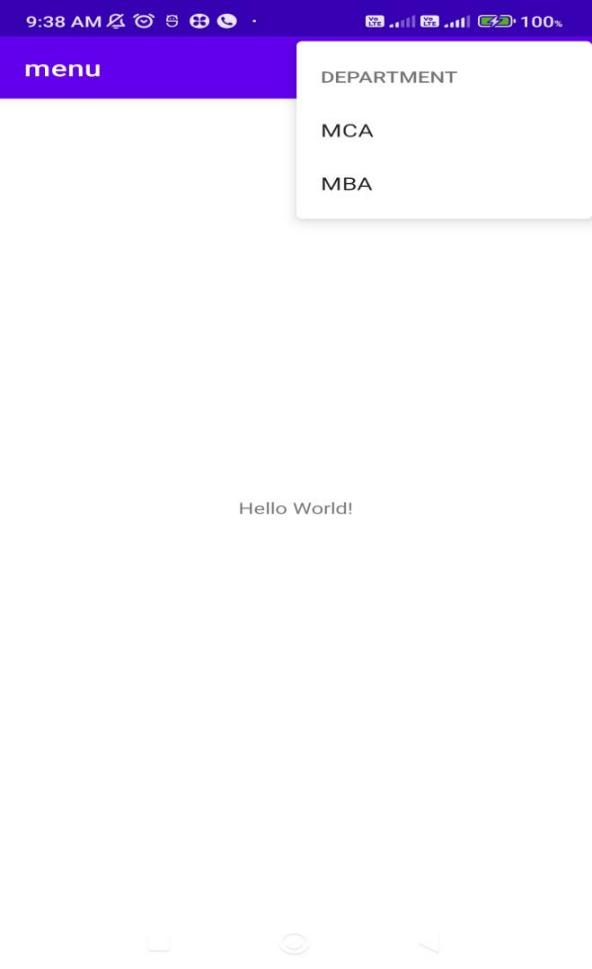
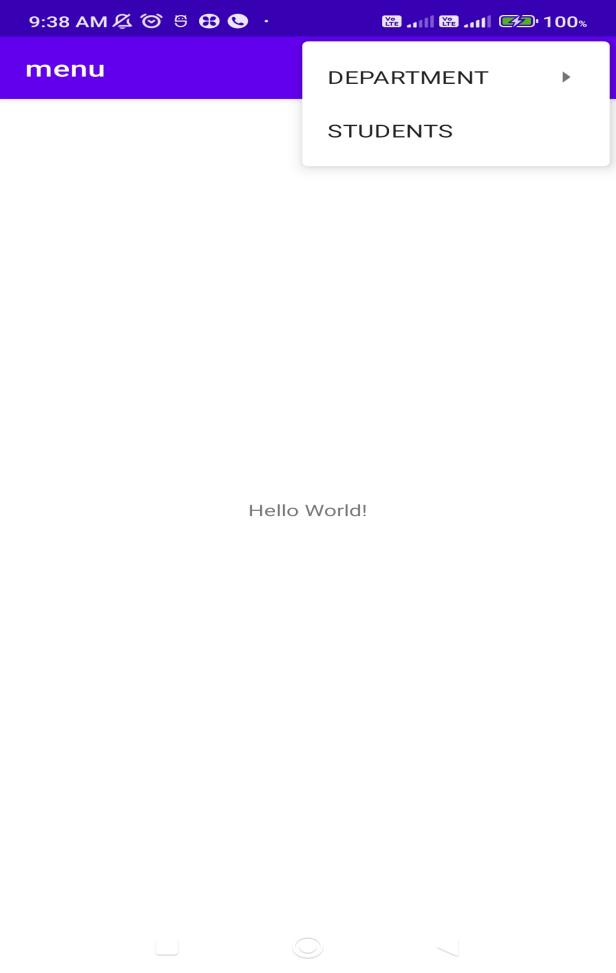
}

return true;

}

}

**OUTPUT**



**COURSE OUTCOME 5**

**PROGRAM 11**

**AIM**

Create database using SQLite and perform INSERT,SELECT,UPDATE AND DELETE

**activity\_main.xml**

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

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

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

tools:context=".MainActivity">

<TextView

android:id="@+id/textView"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="TextView" />

<EditText

android:id="@+id/id"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:inputType="textPersonName"

android:hint="id" />

<EditText

android:id="@+id/name"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:inputType="textPersonName"

android:hint="name" />

<EditText

android:id="@+id/place"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:inputType="textPersonName"

android:hint="place" />

<Button

android:id="@+id/insert"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="insert" />

<Button

android:id="@+id/select"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="select" />

<Button

android:id="@+id/update"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="update" />

<Button

android:id="@+id/delete"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="delete" />

<Button

android:id="@+id/clear"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="clear" />

</LinearLayout>

**MainActivity.java**

package com.example.database\_management;

import androidx.appcompat.app.AlertDialog;

import androidx.appcompat.app.AppCompatActivity;

import android.database.Cursor;

import android.database.sqlite.SQLiteDatabase;

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 {

EditTextid,name,place;

Button insert,select,update,delete,clear;

AlertDialog.Builder builder;

SQLiteDatabasedb;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

id = findViewById(R.id.id);

name = findViewById(R.id.name);

place = findViewById(R.id.place);

insert = findViewById(R.id.insert);

select = findViewById(R.id.select);

update = findViewById(R.id.update);

delete = findViewById(R.id.delete);

clear = findViewById(R.id.clear);

builder = new AlertDialog.Builder(this);

try {

db=openOrCreateDatabase("empdb",MODE\_PRIVATE,null);

db.execSQL("create table employee(id integer primary key,nameText,place Text)");

Toast.makeText(getApplicationContext(),

"table created successfully",Toast.LENGTH\_SHORT).show();

} catch (Exception e) {

}

insert.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

try {

db.execSQL("insert into employee values(" + id.getText().toString() + ",'" + name.getText().toString() + "','" + place.getText().toString() + "')");

Toast.makeText(getApplicationContext(),

"inserted successfully", Toast.LENGTH\_SHORT).show();

}

catch(Exception e)

{

Toast.makeText(getApplicationContext(),

"error", Toast.LENGTH\_SHORT).show();

}

}

});

clear.callOnClick();

select.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

Cursor c=db.rawQuery("select \* from employee",null);

if(c.getCount()==0)

{

Toast.makeText(getApplicationContext(),

"no record", Toast.LENGTH\_SHORT).show();

}

else

{

StringBuffer b=new StringBuffer();

while(c.moveToNext())

{

b.append("id:"+c.getString(0)+"\n");

b.append("name:"+c.getString(1)+"\n");

b.append("place:"+c.getString(2)+"\n");

Toast.makeText(getApplicationContext(),

b.toString(), Toast.LENGTH\_SHORT).show();

builder.setMessage(b.toString());

AlertDialog alert=builder.create();

alert.setTitle("Employee data");

alert.show();

}

}

}

});

update.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

db.execSQL("update

employee set name='"+name.getText().toString()+"',place='"+place.getText().toString()+"' where id="+id.getText().toString()+"");

Toast.makeText(getApplicationContext(),

"updated....", Toast.LENGTH\_SHORT).show();

}

});

delete.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

db.execSQL("delete from employee where id="+id.getText().toString());

Toast.makeText(getApplicationContext(),"ItemDeleted", Toast.LENGTH\_SHORT).show();

}

});

clear.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

id.setText("");

name.setText("");

place.setText("");

}

});

clear.callOnClick();

}

}

**OUTPUT**

