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

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

**LABORATORY RECORD**

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

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**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.

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Date:

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Submitted for University Practical Examination

**Reg. No:** SNG21MCA-2001 **on\_\_\_\_\_\_\_\_\_\_\_**

External Examiner Internal Examiner

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**PROGRAM NO:**5

**DATE:**25/09/22

**INTENTS AND SHARED PREFERENCES**

**AIM:**Design a registration activity and store registration details in local memory of phone using Intents and SharedPreferences

**PAGE 1**

**XML CODE:**

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

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

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

tools:context=".MainActivity">

<TextView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:background="@color/black"

android:textColor="@color/white"

android:text="ENTER THE DETAILS"

android:layout\_marginTop="30px"

android:textSize="25sp"

/>

<EditText

android:id="@+id/fullname"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:layout\_marginTop="30sp"

android:inputType="textPersonName"

android:hint="FULL NAME" />

<EditText

android:id="@+id/email"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:layout\_marginTop="30sp"

android:hint="EMAIL"

android:inputType="textPersonName" />

<EditText

android:id="@+id/location"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:layout\_marginTop="30sp"

android:inputType="textPersonName"

android:hint="LOCATION" />

<Button

android:id="@+id/button"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginTop="30sp"

android:onClick="reg"

android:text="REGISTER" />

</LinearLayout>

**JAVA CODE:**

package com.example.registration\_intent\_shared;

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.Toast;

public class MainActivity extends AppCompatActivity {

EditText name,email,location;

SharedPreferences sp;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

name=findViewById(R.id.fullname);

email=findViewById(R.id.email);

location=findViewById(R.id.location);

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

}

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**

**XML CODE:**

<?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=".MainActivity2">

<TextView

android:id="@+id/det"

android:layout\_width="match\_parent"

android:layout\_marginTop="30px"

android:fontFamily="serif"

android:textStyle="bold"

android:textColor="@color/white"

android:gravity="center"

android:background="@color/black"

android:textSize="25sp"

android:layout\_height="wrap\_content"

android:text="REGISTRATION DETAILS" />

<TextView

android:id="@+id/name"

android:layout\_width="match\_parent"

android:layout\_marginTop="30px"

android:fontFamily="serif"

android:textStyle="bold"

android:textColor="#5981f7"

android:gravity="center"

android:textSize="25sp"

android:layout\_height="wrap\_content"

android:text="NAME" />

<TextView

android:id="@+id/email"

android:textColor="#5981f7"

android:fontFamily="serif"

android:layout\_marginTop="30px"

android:textSize="25sp"

android:textStyle="bold"

android:gravity="center"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="EMAIL" />

<TextView

android:id="@+id/location"

android:textColor="#5981f7"

android:fontFamily="serif"

android:layout\_marginTop="30px"

android:textSize="25sp"

android:textStyle="bold"

android:gravity="center"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="LOCATION" />

</LinearLayout>

**JAVA CODE:**

package com.example.registration\_intent\_shared;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.content.SharedPreferences;

import android.os.Bundle;

import android.widget.TextView;

public class MainActivity2 extends AppCompatActivity {

TextView t1,t2,t3;

SharedPreferences sp;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main2);

t1=findViewById(R.id.name);

t2=findViewById(R.id.email);

t3=findViewById(R.id.location);

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);

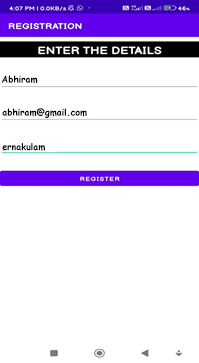
t2.setText("EMAIL: "+val2);

t3.setText("LOCATION: "+val3);

}

}

**OUTPUT**

** **

**PROGRAM NO:**6

**DATE:**30/09/22

**GRID CALCULATOR**

**AIM:**Design a simple Calculator using GridLayout and Cascaded LinearLayout

**XML CODE:**

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

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

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

tools:context=".MainActivity">

<TextView

android:id="@+id/textView"

android:layout\_width="match\_parent"

android:layout\_marginTop="5dp"

android:layout\_height="40dp"

android:background="#16B7CA"

android:gravity="center"

android:textColor="#0E0E0D"

android:text="WELCOME" />

<EditText

android:id="@+id/display"

android:layout\_marginTop="30dp"

android:layout\_width="390dp"

android:layout\_gravity="center"

android:layout\_height="80dp"

android:gravity="center"

android:hint="Result"

android:inputType="textPersonName"

/>

<androidx.gridlayout.widget.GridLayout

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginTop="30dp"

android:layout\_gravity="center">

<Button

android:id="@+id/b7"

android:layout\_width="wrap\_content"

android:layout\_height="54dp"

android:backgroundTint="#6e7778"

android:text="7"

app:layout\_column="0"

app:layout\_row="0" />

<Button

android:id="@+id/b8"

android:layout\_width="wrap\_content"

android:layout\_height="54dp"

android:layout\_marginLeft="10dp"

android:backgroundTint="#6e7778"

android:text="8"

app:layout\_column="1"

app:layout\_row="0" />

<Button

android:id="@+id/b9"

android:layout\_width="wrap\_content"

android:layout\_height="54dp"

android:layout\_marginLeft="10dp"

android:backgroundTint="#6e7778"

android:text="9"

app:layout\_column="2"

app:layout\_row="0" />

<Button

android:id="@+id/div"

android:layout\_width="wrap\_content"

android:layout\_height="54dp"

android:layout\_marginLeft="10dp"

android:backgroundTint="#3C393B"

android:text="/"

app:layout\_column="3"

app:layout\_row="0" />

<Button

android:id="@+id/b4"

android:layout\_width="wrap\_content"

android:layout\_height="54dp"

android:backgroundTint="#6e7778"

android:text="4"

app:layout\_column="0"

app:layout\_row="1" />

<Button

android:id="@+id/b5"

android:layout\_width="wrap\_content"

android:layout\_height="54dp"

android:layout\_marginLeft="10dp"

android:backgroundTint="#6e7778"

android:text="5"

app:layout\_column="1"

app:layout\_row="1" />

<Button

android:id="@+id/b6"

android:layout\_width="wrap\_content"

android:layout\_height="54dp"

android:layout\_marginLeft="10dp"

android:backgroundTint="#6e7778"

android:text="6"

app:layout\_column="2"

app:layout\_row="1" />

<Button

android:id="@+id/mul"

android:layout\_width="wrap\_content"

android:layout\_height="54dp"

android:layout\_marginLeft="10dp"

android:backgroundTint="#3C393B"

android:text="x"

app:layout\_column="3"

app:layout\_row="1" />

<Button

android:id="@+id/b1"

android:layout\_width="wrap\_content"

android:layout\_height="54dp"

android:backgroundTint="#6e7778"

android:text="1"

app:layout\_column="0"

app:layout\_row="2" />

<Button

android:id="@+id/b2"

android:layout\_width="wrap\_content"

android:layout\_height="54dp"

android:layout\_marginLeft="10dp"

android:backgroundTint="#6e7778"

android:text="2"

app:layout\_column="1"

app:layout\_row="2" />

<Button

android:id="@+id/b3"

android:layout\_width="wrap\_content"

android:layout\_height="54dp"

android:layout\_marginLeft="10dp"

android:backgroundTint="#6e7778"

android:text="3"

app:layout\_column="2"

app:layout\_row="2" />

<Button

android:id="@+id/sub"

android:layout\_width="wrap\_content"

android:layout\_height="54dp"

android:layout\_marginLeft="10dp"

android:backgroundTint="#3C393B"

android:text="-"

app:layout\_column="3"

app:layout\_row="2" />

<Button

android:id="@+id/clr"

android:layout\_width="wrap\_content"

android:layout\_height="54dp"

android:backgroundTint="#3C393B"

android:text="clr"

app:layout\_column="0"

app:layout\_row="3" />

<Button

android:id="@+id/b0"

android:layout\_width="wrap\_content"

android:layout\_height="54dp"

android:layout\_marginLeft="10dp"

android:backgroundTint="#6e7778"

android:text="0"

app:layout\_column="1"

app:layout\_row="3" />

<Button

android:id="@+id/equal"

android:layout\_width="wrap\_content"

android:layout\_height="54dp"

android:layout\_marginLeft="10dp"

android:backgroundTint="#3C393B"

android:text="="

app:layout\_column="2"

app:layout\_row="3" />

<Button

android:id="@+id/add"

android:layout\_width="wrap\_content"

android:layout\_height="54dp"

android:layout\_marginLeft="10dp"

android:backgroundTint="#3C393B"

android:text="+"

app:layout\_column="3"

app:layout\_row="3" />

</androidx.gridlayout.widget.GridLayout>

</LinearLayout>

**JAVA CODE:**

package com.example.gridcalculator;

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, sum, sub, mul, div,equal, clear;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

number = findViewById(R.id.display);

b0 = findViewById(R.id.b0);

b1 = findViewById(R.id.b1);

b2 = findViewById(R.id.b2);

b3 = findViewById(R.id.b3);

b4 = findViewById(R.id.b4);

b5 = findViewById(R.id.b5);

b6 = findViewById(R.id.b6);

b7 = findViewById(R.id.b7);

b8 = findViewById(R.id.b8);

b9 = findViewById(R.id.b9);

sum = findViewById(R.id.add);

sub = findViewById(R.id.sub);

mul = findViewById(R.id.mul);

div = findViewById(R.id.div);

equal = findViewById(R.id.equal);

clear = findViewById(R.id.clr);

b0.setOnClickListener(this);

b1.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);

mul.setOnClickListener(this);

div.setOnClickListener(this);SSSSS

sub.setOnClickListener(this);

sum.setOnClickListener(this);

clear.setOnClickListener(this);

equal.setOnClickListener(this);

}

@Override

public void onClick(View view) {

Button b= (Button) view;

if(view==clear)

{

number.setText("");

}

else if(view==sub||view==sum||view==mul||view==div)

{

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

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

number.setText("");

}

else if(view==equal)

{

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("x"))

{

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

}

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

{

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

}

}

else

{

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

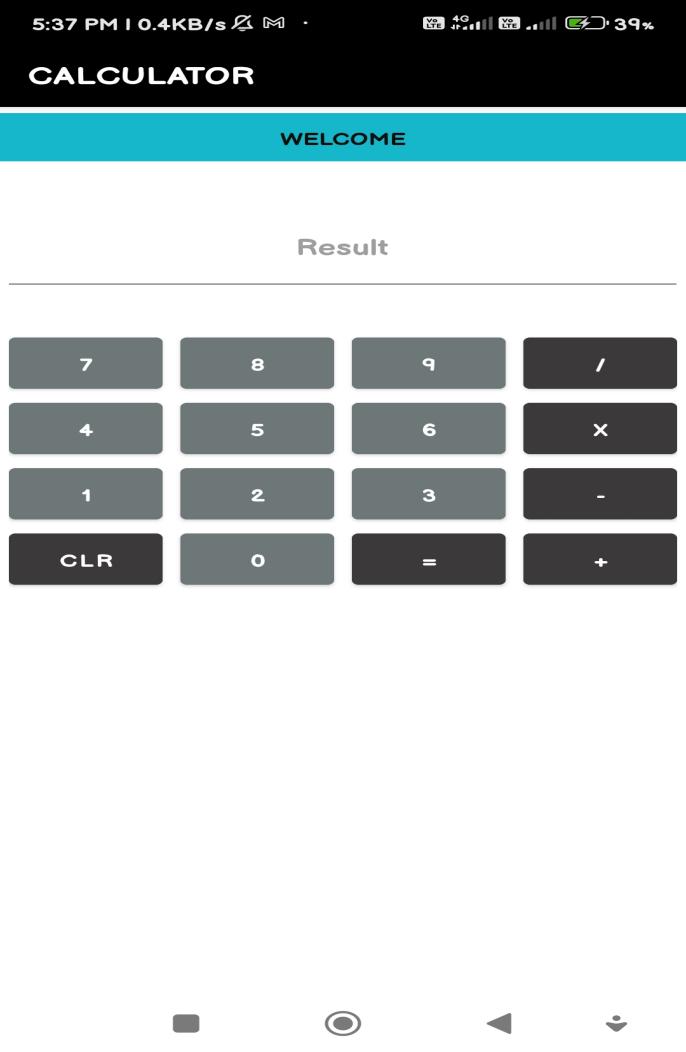
number.setText(s+b.getText().toString());

}

}

}

**OUTPUT**

****

**PROGRAM NO:**7

**DATE:**05/10/22

**FACEBOOK PAGE**

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

**XML CODE:**

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

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:background="#3e52ab"

tools:context=".MainActivity">

<ImageView

android:id="@+id/imageView"

android:layout\_width="match\_parent"

android:layout\_height="100dp"

android:layout\_gravity="center"

android:layout\_marginTop="40dp"

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

<EditText

android:id="@+id/username"

android:layout\_width="match\_parent"

android:layout\_height="50dp"

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

android:layout\_marginLeft="10dp"

android:layout\_marginRight="10dp"

android:layout\_marginTop="60dp"

android:background="@drawable/back"

android:ems="10"

android:hint="Email or Phone Number"

android:inputType="textPersonName"

android:paddingLeft="30dp"

android:textColor="@color/white"

android:textColorHint="@color/white"

android:textSize="19sp" />

<EditText

android:id="@+id/password"

android:layout\_width="match\_parent"

android:layout\_height="50dp"

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

android:layout\_marginLeft="10dp"

android:layout\_marginTop="10dp"

android:layout\_marginRight="10dp"

android:background="@drawable/back"

android:ems="10"

android:hint="password"

android:inputType="textPersonName"

android:paddingLeft="30dp"

android:textColor="@color/white"

android:textColorHint="@color/white"

android:textSize="19sp" />

<Button

android:id="@+id/button"

android:layout\_width="260dp"

android:layout\_height="55dp"

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

android:layout\_centerHorizontal="true"

android:layout\_marginTop="40dp"

android:backgroundTint="#46b082"

android:text="Login"

android:textSize="18sp" />

<TextView

android:id="@+id/textView"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

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

android:layout\_centerHorizontal="true"

android:layout\_marginTop="15dp"

android:text="Forgot account?"

android:textColor="@color/white"

android:textSize="22dp" />

<View

android:layout\_width="match\_parent"

android:layout\_height="2dp"

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

android:layout\_marginTop="20dp"

android:background="#94918e" />

<Button

android:id="@+id/button2"

android:layout\_width="260dp"

android:layout\_height="55dp"

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

android:layout\_centerHorizontal="true"

android:layout\_marginTop="70dp"

android:backgroundTint="#46b082"

android:text="Create New Account" />

</RelativeLayout>

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

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

android:shape="rectangle" >

<!-- View background color -->

<solid

android:color="#3e52ab" >

</solid>

<!-- View border color and width -->

<stroke

android:width="1dp"

android:color="@color/white" >

</stroke>

<!-- The radius makes the corners rounded -->

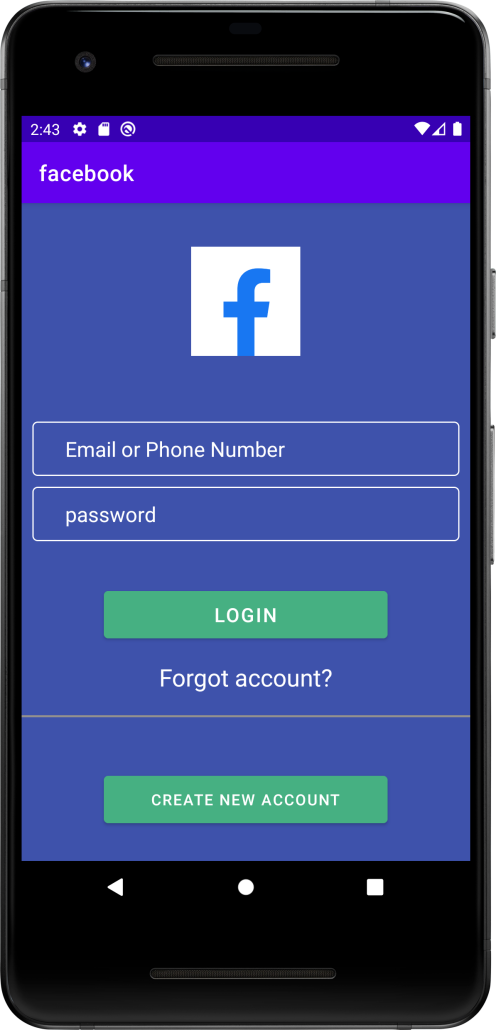
<corners

android:radius="4dp" >

</corners>

</shape>

**OUTPUT**

****

**PROGRAM NO:**8

**DATE:**20/10/22

**TOGGLE IMAGE**

**AIM:**Develop an application that toggles image using FrameLayout

**XML CODE:**

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

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

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".MainActivity">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical">

<ImageView

android:id="@+id/image1"

android:layout\_width="match\_parent"

android:layout\_height="100dp"

app:srcCompat="@android:drawable/btn\_star" />

<ImageView

android:id="@+id/image2"

android:layout\_width="match\_parent"

android:layout\_height="100dp"

app:srcCompat="@android:drawable/ic\_lock\_idle\_lock" />

</LinearLayout>

</FrameLayout>

**JAVA CODE:**

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 {

ImageView img1,img2;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

img1=findViewById(R.id.image1);

img2=findViewById(R.id.image2);

img1.setOnClickListener(this);

img2.setOnClickListener(this);

}

@Override

public void onClick(View v) {

if(v==img1)

{

img1.setVisibility(View.GONE);

img2.setVisibility(View.VISIBLE);

}

else

{

img2.setVisibility(View.GONE);

img1.setVisibility(View.VISIBLE);

}

}

}

**OUTPUT**

**  **

**PROGRAM NO:**9

**DATE:**30/10/22

**INTENT**

**AIM:**Implement Intent to navigate between multiple activities

**PAGE 1**

**XML CODE:**

<?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">

<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>

**JAVA CODE:**

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**

**XML CODE:**

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

<androidx.constraintlayout.widget.ConstraintLayout Sxmlns: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>

**JAVA CODE:**

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 NO:**10

**DATE:**10/11/22

**MENU**

**AIM:**Implement Options Menu to navigate to activities

**MENU**

<?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>

**XML CODE:**

<?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\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

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

</androidx.constraintlayout.widget.ConstraintLayout>

**JAVA CODE:**

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 boolean onCreateOptionsMenu(Menu menu) {

MenuInflater inflater=getMenuInflater();

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

return true;

}

@Override

public boolean onOptionsItemSelected(@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;

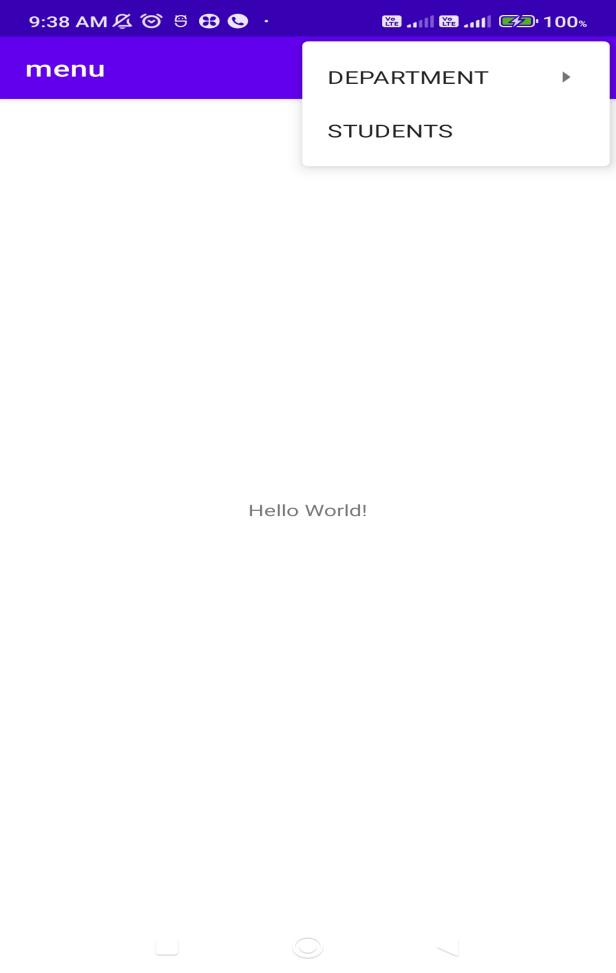
}

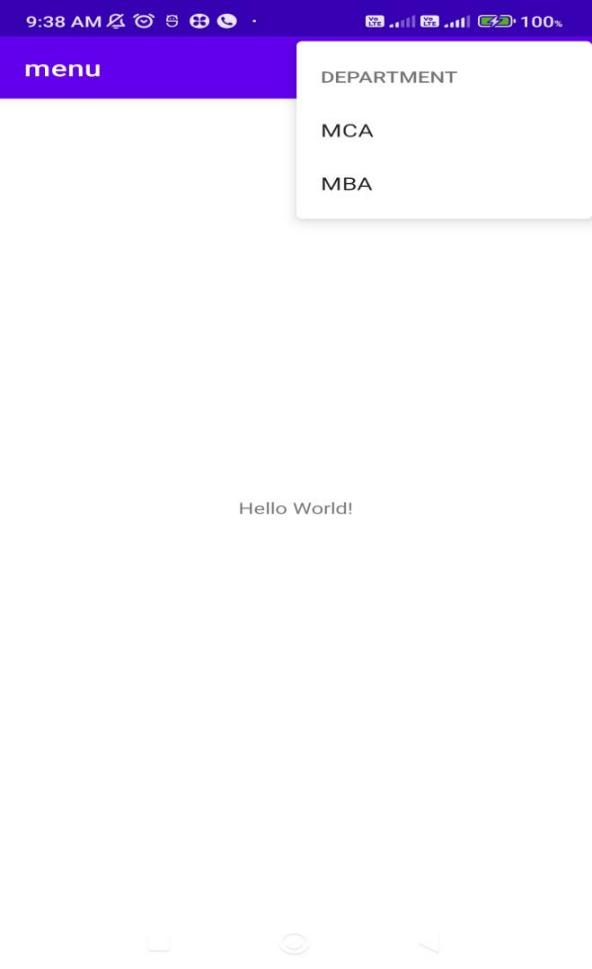
return true;

}

}

**OUTPUT**

****

****

**PROGRAM NO:**11

**DATE:2**0/11/22

**DATABASE MANAGEMENT**

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

**XML CODE:**

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

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

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

tools:context=".MainActivity">

<TextView

android:id="@+id/textView"

android:layout\_width="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>

**JAVA CODE:**

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 {

EditText id,name,place;

Button insert,select,update,delete,clear;

AlertDialog.Builder builder;

SQLiteDatabase db;

@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,name Text,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("");

}

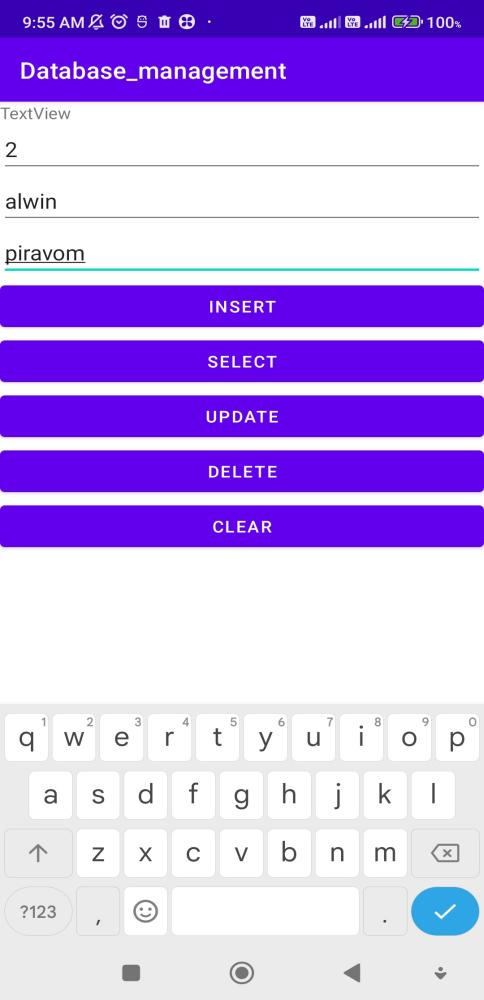
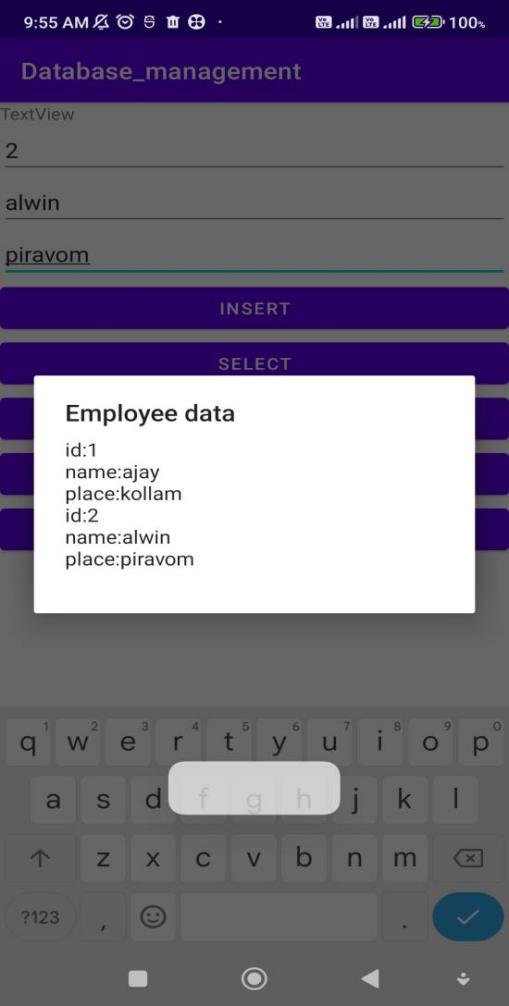
});

clear.callOnClick();

}

}

**OUTPUT**

** **

**COURSE OUTCOME 1**

**COURSE OUTCOME 2**

**COURSE OUTCOME 3**

**COURSE OUTCOME 5**