

# SREE NARAYANA GURUKULAM COLLEGE OF ENGINEERING KADAYIRUPPU, KOLENCHERY 682311

## LABORATORY RECORD

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

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SEMESTER: 3
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BRANCH: CO

**External Examiner** 

**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.

**Internal Examiner** 

Kadayii Date:	ruppu		
	Head of the Department	Course Instructor	
	Submitted for University Practical Examination		
	Reg. No: SNG21M	1CA-2031 on	

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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 version="1.0" encoding="utf-8"?>
<LinearLayoutxmlns: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="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 {
EditTextname, email, location;
SharedPreferencessp;
  @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);
```

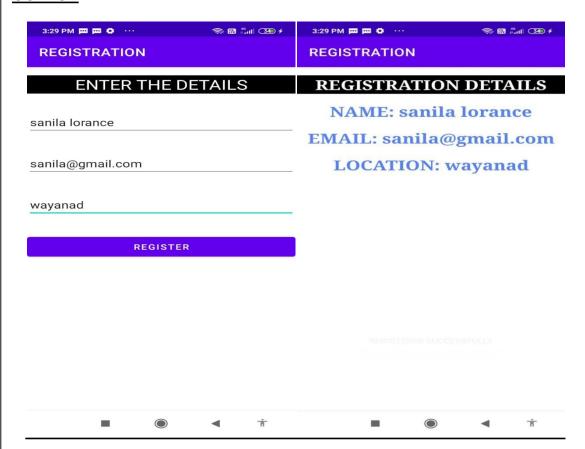
```
}
```

#### PAGE 2

<TextView

```
XML CODE:
<?xml version="1.0" encoding="utf-8"?>
<LinearLayoutxmlns: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=".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" />
```

```
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;
SharedPreferencessp;
  @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);
  }
```



## **PROGRAM NO:**6 **DATE:**30/09/22

#### **GRID CALCULATOR**

AIM: Design a simple Calculator using GridLayout and Cascaded LinearLayout

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayoutxmlns: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: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"/>
```

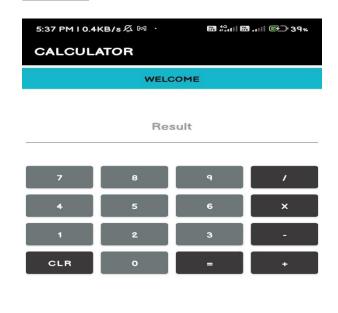
```
<Button
android:id="@+id/b8"
android:layout width="wrap content"
android:layout height="54dp"
android:layout marginLeft="10dp"
android:backgroundTint="#6e7778"
android:text="8"
app:layout column="1"
app:layout row="0"/>
<Button
android:id="@+id/b9"
android:layout width="wrap content"
android:layout 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());
```



**⋖** ÷

## **PROGRAM NO:7 DATE:**05/10/22

#### **FACEBOOK PAGE**

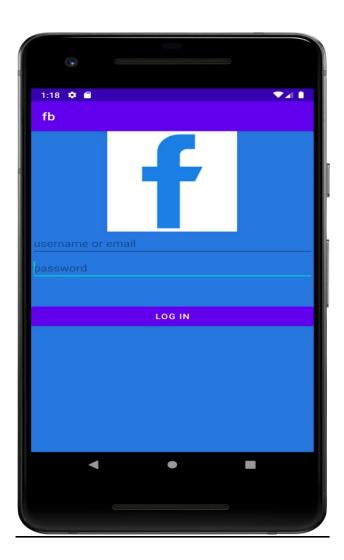
AIM: Create a Facebook page using RelativeLayout; set properties using .xml file

#### **XML CODE:**

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</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:background="#2677e0"
  tools:context=".MainActivity">
  <ImageView
    android:id="@+id/imageView"
    android:layout width="190dp"
    android:layout height="189dp"
    android:layout centerHorizontal="true"
    android:foregroundGravity="center"
    app:srcCompat="@drawable/fbb" />
  <EditText
    android:id="@+id/edit"
    android:layout width="match parent"
    android:layout height="wrap content"
    android:layout below="@+id/imageView"
    android:layout marginTop="0dp"
    android:ems="10"
    android:inputType="textPersonName"
    android:hint="username or email" />
  <EditText
    android:id="@+id/edit2"
    android:layout width="match parent"
    android:layout height="wrap content"
    android:layout below="@id/edit"
    android:layout marginTop="1dp"
    android:ems="10"
    android:inputType="textPersonName"
    android:hint="password" />
  <Button
    android:id="@+id/button"
    android:layout width="match parent"
    android:layout height="wrap content"
    android:layout below="@id/edit2"
```

android:layout marginTop="44dp"

android:text="LOG IN" /> </RelativeLayout>



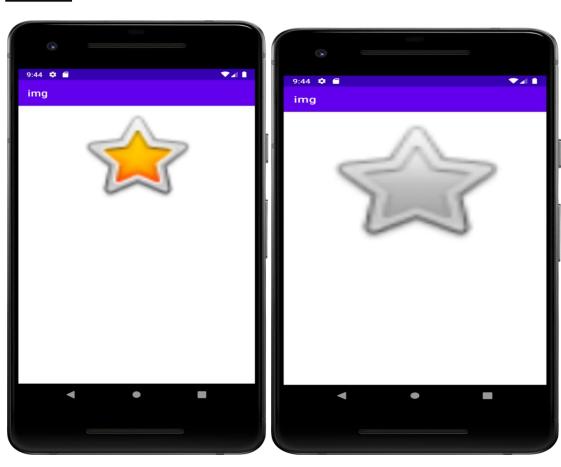
### **PROGRAM NO:8 DATE:**20/10/22

#### **TOGGLE IMAGE**

AIM: Develop an application that toggles image using FrameLayout

```
<?xml version="1.0" encoding="utf-8"?>
<FrameLayout 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">
  <LinearLayout
    android:layout width="match parent"
    android:layout height="match parent"
    android:orientation="vertical">
    <ImageView
      android:id="@+id/img1"
      android:layout width="match parent"
      android:layout height="215dp"
      app:srcCompat="@android:drawable/btn star big on" />
    <ImageView
      android:id="@+id/img2"
      android:layout width="match parent"
      android:layout height="304dp"
      app:srcCompat="@android:drawable/btn star"/>
  </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);
    }
}
```



## **PROGRAM NO:9 DATE:**30/10/22

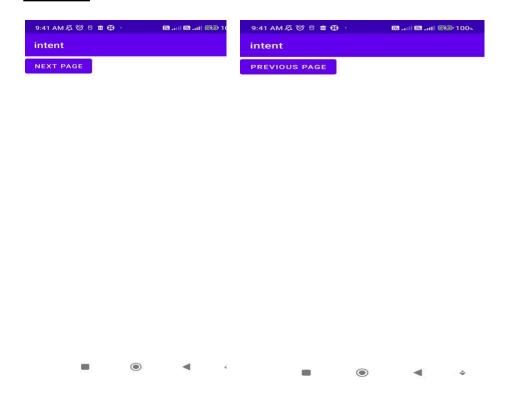
#### **INTENT**

AIM: Implement Intent to navigate between multiple activities

#### PAGE 1

```
<?xml version="1.0" encoding="utf-8"?>
 <androidx.constraintlayout.widget.ConstraintLayoutxmlns:android="http://schemas.android.com/apk/res/</p>
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.ConstraintLayoutSxmlns:android="http://schemas.android.com/apk/</pre>
   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);
  }
```



#### PROGRAM NO:10 DATE:10/11/22

#### **MENU**

AIM: Implement Options Menu to navigate to activities

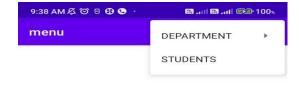
#### **MENU**

```
<?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>
```

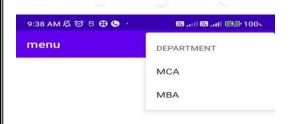
```
<?xml version="1.0" encoding="utf-8"?>
 <androidx.constraintlayout.widget.ConstraintLayoutxmlns:android="http://schemas.android.com/apk/res/
android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:layout width="match parent"
android:layout 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>
```

#### **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 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;
```



Hello World!



Hello World!

#### PROGRAM NO:11 DATE:20/11/22

#### **DATABASE MANAGEMENT**

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

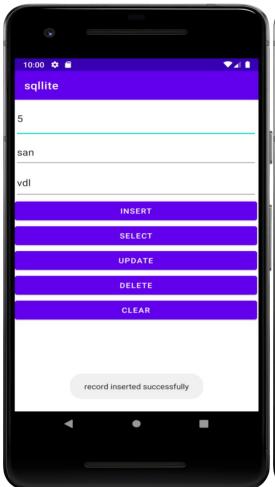
```
<?xml version="1.0" encoding="utf-8"?>
 <LinearLayoutxmlns:android="http://schemas.android.com/apk/res/android"</p>
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:layout width="match parent"
android:layout height="match parent"
android:orientation="vertical"
  tools:context=".MainActivity">
<TextView
android: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"
```

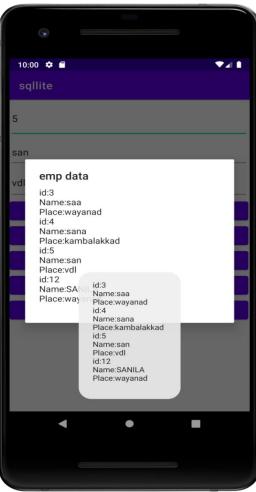
```
android:layout width="match parent"
     android:layout height="wrap content"
     android:text="insert" />
     <Button
     android:id="@+id/select"
     android:layout width="match parent"
     android:layout height="wrap content"
     android:text="select"/>
     <Button
     android:id="@+id/update"
     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 {
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);
```

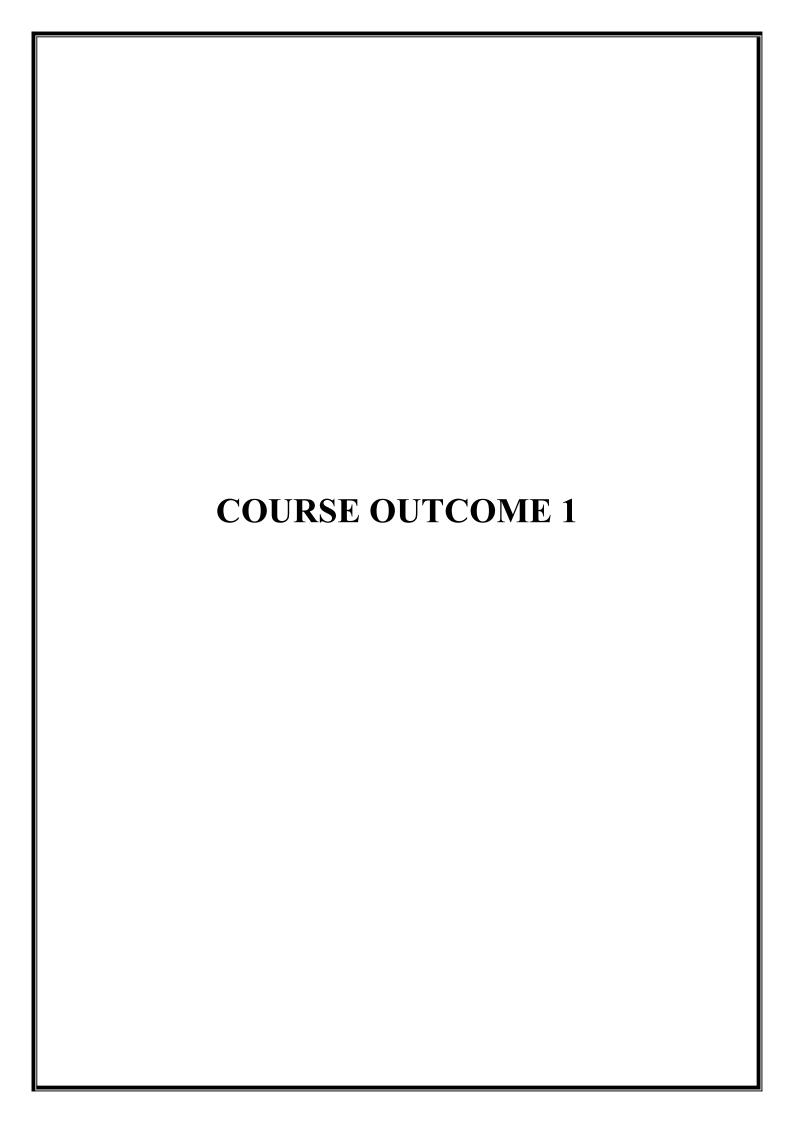
name = findViewById(R.id.name);

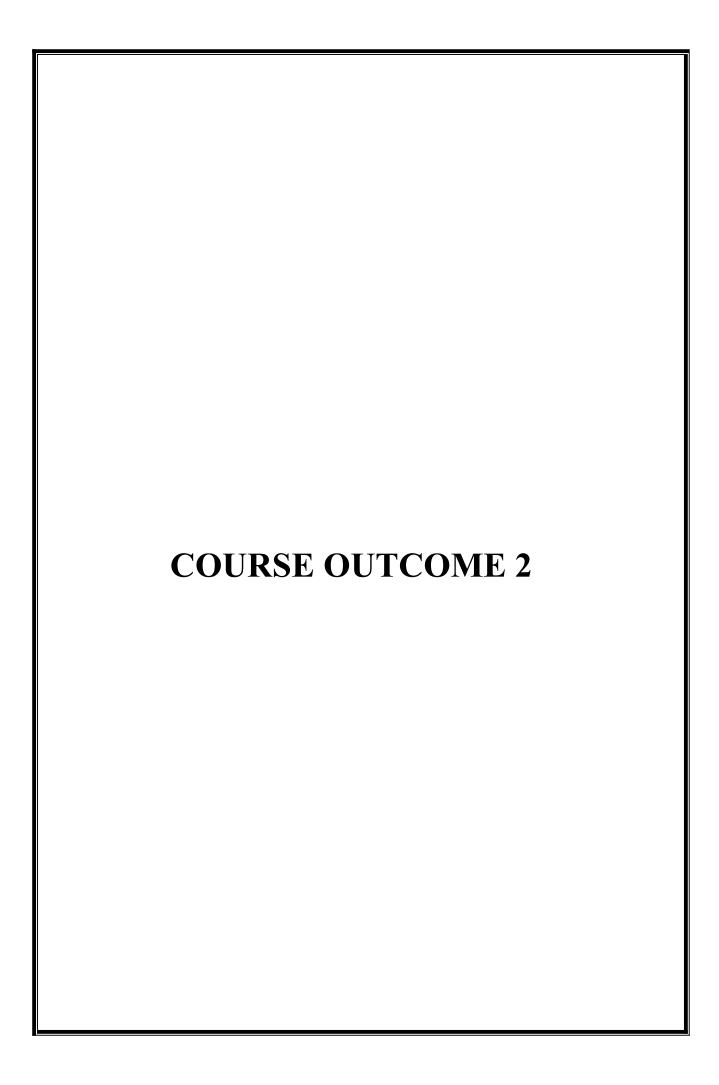
```
place = findViewById(R.id.place);
   insert = findViewById(R.id.insert);
   select = findViewById(R.id.select);
   update = findViewById(R.id.update);
   delete = findViewById(R.id.delete);
   clear = findViewById(R.id.clear);
   builder = new AlertDialog.Builder(this);
    try {
db=openOrCreateDatabase("empdb",MODE 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) {
 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");
```

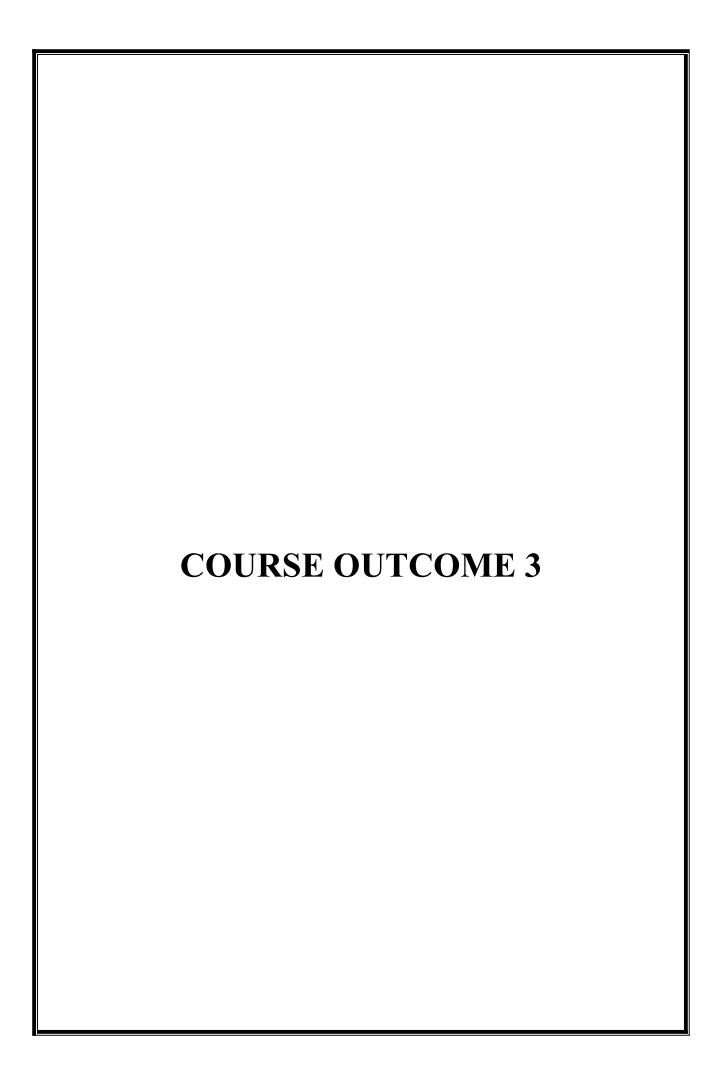
```
b.append("place:"+c.getString(2)+"\n");
Toast.makeText(getApplicationContext(),
b.toString(), Toast.LENGTH SHORT).show();
builder.setMessage(b.toString());
AlertDialog alert=builder.create();
alert.setTitle("Employee data");
alert.show();
       }
});
update.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View view) {
db.execSQL("update
                   name=""+name.getText().toString()+"",place=""+place.getText().toString()+""
 employee
             set
                                                                                                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();
```











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COURSE OUTCOME 5	