QUESTION 2

PROCEDURE

**Activity\_main.xml**

<?xml version="1.0" encoding="utf-8"?>  
<TableLayout 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">  
 <TableRow  
 android:layout\_height="wrap\_content"  
 android:layout\_width="wrap\_content">  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/numone"  
 />  
  
 <EditText  
 android:id="@+id/eid1"  
 android:layout\_width="253dp"  
 android:layout\_height="wrap\_content"  
 android:inputType="text" />  
  
 </TableRow>  
  
 <TableRow  
 android:layout\_height="wrap\_content"  
 android:layout\_width="wrap\_content">  
  
 <Button  
 android:id="@+id/btn"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="Check" />  
  
 <TextView  
 android:id="@+id/eid3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:inputType="text" />  
  
 </TableRow>  
  
</TableLayout>

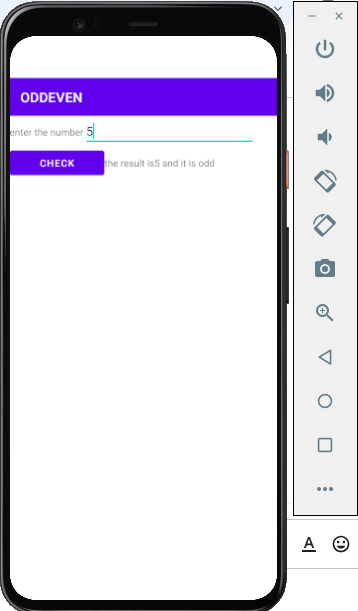
**MainActivity.java**

package com.example.oddeven;  
  
import androidx.appcompat.app.AppCompatActivity;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.TextView;  
  
public class MainActivity extends AppCompatActivity {  
 Button b;  
 EditText e1;  
 TextView t1;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 e1=findViewById(R.id.*eid1*);  
 t1=findViewById(R.id.*eid3*);  
 b=findViewById(R.id.*btn*);  
 b.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 String num1 = e1.getText().toString();  
 Integer a = Integer.*parseInt*(num1);  
 if (a % 2 == 0) {  
 t1.setText("the result is" + String.*valueOf*(a) + " and it is even");  
 } else {  
 t1.setText("the result is" + String.*valueOf*(a) + " and it is odd");  
 }  
 }  
 });  
 }  
}

**Strings.xml**

<resources>  
 <string name="app\_name">ODDEVEN</string>  
 <string name="numone">enter the number </string>  
</resources>

OUTPUT



QUESTION 3

PROCEDURE

**Activity\_main.xml**

<?xml version="1.0" encoding="utf-8"?>  
<TableLayout 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">  
  
 <TableRow  
 android:layout\_height="wrap\_content"  
 android:layout\_width="wrap\_content">  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/aaa"  
 />  
 <EditText  
 android:id="@+id/eid1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:inputType="text"  
 />  
 </TableRow>  
  
 <TableRow  
 android:layout\_height="wrap\_content"  
 android:layout\_width="wrap\_content">  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/aab"  
 />  
 <EditText  
 android:id="@+id/eid2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:inputType="text"  
 />  
 </TableRow>  
  
 <TableRow  
 android:layout\_height="wrap\_content"  
 android:layout\_width="wrap\_content">  
  
 <Button  
 android:id="@+id/btn1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="ADD"  
 />  
  
 </TableRow>  
  
 <TableRow  
 android:layout\_height="wrap\_content"  
 android:layout\_width="wrap\_content">  
  
 <Button  
 android:id="@+id/btn2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="SUBTRACT"  
 />  
  
 </TableRow>  
  
 <TableRow  
 android:layout\_height="wrap\_content"  
 android:layout\_width="wrap\_content">  
  
 <Button  
 android:id="@+id/btn3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="MULTIPLY"  
 />  
  
 </TableRow>  
  
 <TableRow  
 android:layout\_height="wrap\_content"  
 android:layout\_width="wrap\_content">  
  
 <Button  
 android:id="@+id/btn4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="DIVIDE"  
 />  
  
 </TableRow>  
  
 <TableRow  
 android:layout\_height="wrap\_content"  
 android:layout\_width="wrap\_content">  
  
 <EditText  
 android:id="@+id/eid14"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:inputType="text"  
 />  
  
 </TableRow>  
  
</TableLayout>

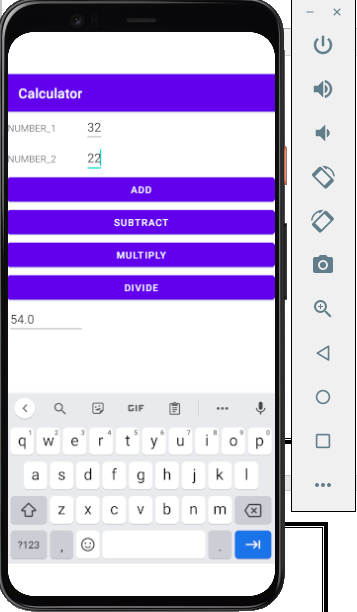
**MainActivity.java**

package com.example.calculator;  
  
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 {  
 Button b1, b2, b3, b4;  
 EditText e1, e2, e3, e4, e5, e6;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 e1 = findViewById(R.id.*eid1*);  
 e2 = findViewById(R.id.*eid2*);  
 e6 = findViewById(R.id.*eid14*);  
 b1 = findViewById(R.id.*btn1*);  
 b2 = findViewById(R.id.*btn2*);  
 b3 = findViewById(R.id.*btn3*);  
 b4 = findViewById(R.id.*btn4*);  
  
 b1.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 calculate("+");  
 }  
 });  
  
 b2.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 calculate("-");  
 }  
 });  
  
 b3.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 calculate("\*");  
 }  
 });  
  
 b4.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 calculate("/");  
 }  
 });  
 }  
  
 private void calculate(String operator) {  
 double num1 = Double.*parseDouble*(e1.getText().toString());  
 double num2 = Double.*parseDouble*(e2.getText().toString());  
 double result = 0;  
  
 switch (operator) {  
 case "+":  
 result = num1 + num2;  
 break;  
 case "-":  
 result = num1 - num2;  
 break;  
 case "\*":  
 result = num1 \* num2;  
 break;  
 case "/":  
 if (num2 != 0) {  
 result = num1 / num2;  
 } else {  
 e6.setText("Division by zero is not allowed.");  
 return;  
 }  
 break;  
 }  
  
 e6.setText(String.*valueOf*(result));  
 }  
}

**Strings.xml**

<resources>  
 <string name="app\_name">Calculator</string>  
 <string name="aaa">NUMBER\_1</string>  
 <string name="aab">NUMBER\_2</string>  
</resources>

OUTPUT



QUESTION 4

PROCEDURE

**Activity\_main.xml**

<?xml version="1.0" encoding="utf-8"?>  
<TableLayout 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">  
  
 <TableRow  
 android:layout\_height="wrap\_content"  
 android:layout\_width="wrap\_content">  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/aaa"  
 />  
 <EditText  
 android:id="@+id/eid1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:inputType="text"  
 />  
 </TableRow>  
  
 <TableRow  
 android:layout\_height="wrap\_content"  
 android:layout\_width="wrap\_content">  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/aab"  
 />  
 <EditText  
 android:id="@+id/eid2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:inputType="text"  
 />  
 </TableRow>  
  
 <TableRow  
 android:layout\_height="wrap\_content"  
 android:layout\_width="wrap\_content">  
  
 <Button  
 android:id="@+id/btn"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="LOGIN" />  
 </TableRow>  
  
 <TableRow  
 android:layout\_height="wrap\_content"  
 android:layout\_width="wrap\_content">  
  
 <EditText  
 android:id="@+id/eid3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:inputType="text" />  
 </TableRow>

</TableLayout>

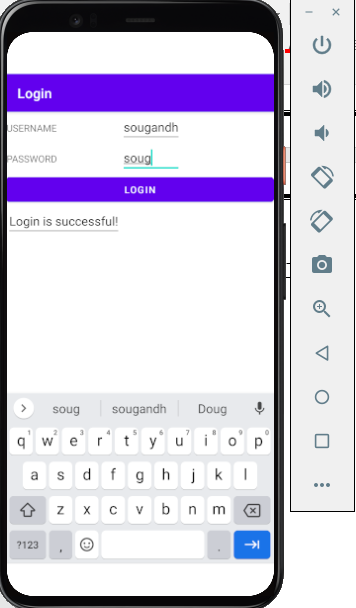
**MainActivity.java**

package com.example.login;  
  
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 {  
Button b;  
EditText e1,e2,e3;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 e1=findViewById(R.id.*eid1*);  
 e2=findViewById(R.id.*eid2*);  
 e3=findViewById(R.id.*eid3*);  
 b=findViewById(R.id.*btn*);  
 b.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 String username=e1.getText().toString();  
 String password=e2.getText().toString();  
 if (username.equals("sougandh") && password.equals("soug")) {  
 // Login is successful, show a message  
 e3.setText("Login is successful!");  
 } else {  
 // Login failed, show an error message  
 e3.setText("Login failed. Please check your credentials.");  
 }  
 }  
 });  
  
 }  
}

**Strings.xml**

resources>  
 <string name="app\_name">Login</string>  
 <string name="aaa">USERNAME</string>  
 <string name="aab">PASSWORD</string>  
</resources>

OUTPUT



QUESTION 5

PROCEDURE

**Activity\_main.xml**

<!-- res/layout/activity\_main.xml -->

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

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".MainActivity">

<EditText

android:id="@+id/editText"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_centerInParent="true"

android:hint="Enter a number"

android:inputType="number"

android:layout\_margin="16dp" />

<Button

android:id="@+id/calculateButton"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_centerHorizontal="true"

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

android:text="Calculate"

android:layout\_marginTop="16dp" />

<TextView

android:id="@+id/resultTextView"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_centerHorizontal="true"

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

android:layout\_marginTop="16dp"

android:text="Result: "

android:textSize="20sp" />

</RelativeLayout>

**MainActivity.java**

package com.example.sumofdigits;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.TextView;

import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

private EditText editText;

private Button calculateButton;

private TextView resultTextView;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

editText = findViewById(R.id.editText);

calculateButton = findViewById(R.id.calculateButton);

resultTextView = findViewById(R.id.resultTextView);

calculateButton.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

String input = editText.getText().toString();

if (!input.isEmpty()) {

int num = Integer.parseInt(input);

int sum = 0;

while (num > 0) {

sum += num % 10;

num /= 10;

}

resultTextView.setText("Result: " + sum);

} else {

Toast.makeText(MainActivity.this, "Please enter a number.", Toast.LENGTH\_SHORT).show();

}

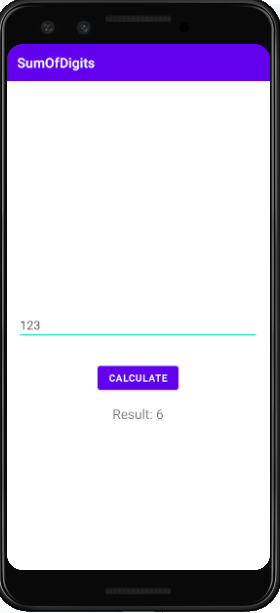
}

});

}

}

OUTPUT



QUESTION 6

PROCEDURE

**Activity\_main.xml**

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

<RelativeLayout

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

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

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

android:layout\_width="match\_parent"

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

<EditText

android:id="@+id/numberInput"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Enter a number"

android:layout\_marginTop="20dp"

android:layout\_marginHorizontal="16dp"/>

<Button

android:id="@+id/checkButton"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Check"

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

android:layout\_centerHorizontal="true"

android:layout\_marginTop="16dp"/>

<TextView

android:id="@+id/resultText"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

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

android:layout\_centerHorizontal="true"

android:layout\_marginTop="16dp"/>

</RelativeLayout>

**MainActivity.java**

package com.example.armstrong;

import androidx.appcompat.app.AppCompatActivity;

import android.widget.Button;

import android.widget.EditText;

import android.widget.TextView;

import android.view.View;

import android.os.Bundle;

public class MainActivity extends AppCompatActivity {

EditText numberInput;

TextView resultText;

Button checkButton;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

numberInput = findViewById(R.id.numberInput);

resultText = findViewById(R.id.resultText);

checkButton = findViewById(R.id.checkButton);

checkButton.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

String numberStr = numberInput.getText().toString();

if (isArmstrongNumber(numberStr)) {

resultText.setText(numberStr + " is an Armstrong number.");

} else {

resultText.setText(numberStr + " is not an Armstrong number.");

}

}

});

}

private boolean isArmstrongNumber(String numberStr) {

int number = Integer.parseInt(numberStr);

int originalNumber = number;

int numDigits = numberStr.length();

int sum = 0;

while (number > 0) {

int digit = number % 10;

int poweredDigit = 1;

for (int i = 0; i < numDigits; i++) {

poweredDigit \*= digit;

}

sum += poweredDigit;

number /= 10;

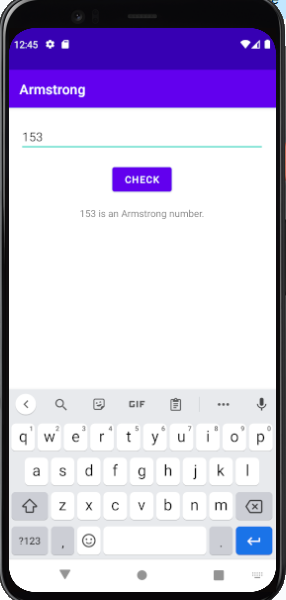
}

return sum == originalNumber;

}

}

OUTPUT



QUESTION 7

PROCEDURE

**Activity\_main.xml**

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

<TableLayout 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"

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

tools:context=".MainActivity">

<TableRow

android:layout\_width="match\_parent"

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

<TextView

android:layout\_width="wrap\_parent"

android:layout\_height="wrap\_parent"

android:text="@string/aaa"/>

<EditText

android:id="@+id/txt1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:inputType="text"/>

</TableRow>

<TableRow

android:layout\_width="match\_parent"

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

<Button

android:id="@+id/btn"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:layout\_weight="1"

android:text="Submit"

/>

</TableRow>

</TableLayout>

**MainActivity.java**

package com.example.mineapp;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.net.Uri;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

EditText e1;

Button b1;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

e1=findViewById(R.id.txt1);

b1=findViewById(R.id.btn);

b1.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

//Intent i=new Intent(Intent.ACTION\_VIEW, Uri.parse("https://www.instagram.com/"));

//startActivity(i);

String name=e1.getText().toString();

//Toast.makeText(MainActivity.this,String.valueOf(name), Toast.LENGTH\_SHORT).show();

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

i.putExtra("Name",name);

startActivity(i);

}

});

}

}

**Activity\_main2.xml**

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

<TableLayout

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

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

tools:context=".MainActivity2">

<TableRow>

<TextView

android:id="@+id/textView"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="HeLLO WORLD"/>

</TableRow>

<TableRow>

<EditText

android:id="@+id/txt2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:inputType="text"/>

</TableRow>

</TableLayout>

**MainActivity2.java**

package com.example.mineapp;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.widget.EditText;

public class MainActivity2 extends AppCompatActivity {

EditText e2;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main2);

e2=findViewById(R.id.txt2);

Intent i=getIntent();

String intentname=i.getStringExtra("Name");

e2.setText(intentname);

}

}

**AndroidManifest.xml**

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

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

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

package="com.example.mineapp" >

<application

android:allowBackup="true"

android:dataExtractionRules="@xml/data\_extraction\_rules"

android:fullBackupContent="@xml/backup\_rules"

android:icon="@mipmap/ic\_launcher"

android:label="@string/app\_name"

android:roundIcon="@mipmap/ic\_launcher\_round"

android:supportsRtl="true"

android:theme="@style/Theme.MineApp"

tools:targetApi="31" >

<activity

android:name=".MainActivity2"

android:exported="false" />

<activity

android:name=".MainActivity"

android:exported="true" >

<intent-filter>

<action android:name="android.intent.action.MAIN" />

<category android:name="android.intent.category.LAUNCHER" />

</intent-filter>

</activity>

</application>

</manifest>

OUTPUT

QUESTION 8

PROCEDURE

**Activity\_main.xml**

<?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">

<ImageView

android:id="@+id/img1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:src="@drawable/smiley1"

android:scaleType="fitXY"/>

<ImageView

android:id="@+id/img2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:src="@drawable/smiley3"

android:scaleType="fitXY"/>

</FrameLayout>

**MainActivity.java**

package com.example.frame;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.ImageView;

public class MainActivity extends AppCompatActivity {

ImageView img1,img2;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

img1=findViewById(R.id.img1);

img2=findViewById(R.id.img2);

img1.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

img2.setVisibility(View.VISIBLE);

img1.setVisibility(View.GONE);

}

});

img2.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

img2.setVisibility(View.GONE);

img1.setVisibility(View.VISIBLE);

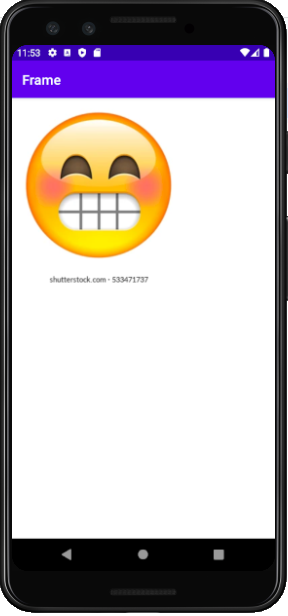
}

});

}

}

OUTPUT





QUESTION 9

PROCEDURE

**Activity\_main.xml**

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

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

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

tools:context=".MainActivity">

<Button

android:id="@+id/btn"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_weight="1"

android:text="CLICK ME"/>

</RelativeLayout>

**MainActivity.java**

package com.example.alert;

import android.app.AlertDialog;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Context;

import android.content.DialogInterface;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

public class MainActivity extends AppCompatActivity {

Button b;

private Context context=this;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

b=findViewById(R.id.btn);

b.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

AlertDialog.Builder alert=new AlertDialog.Builder(context);

alert.setTitle("AlertBox");

alert.setMessage("Do you want to close").setPositiveButton("yes", new DialogInterface.OnClickListener() {

@Override

public void onClick(DialogInterface dialogInterface, int i) {

MainActivity.this.finish();

}

}).setNegativeButton("no", new DialogInterface.OnClickListener() {

@Override

public void onClick(DialogInterface dialogInterface, int i) {

}

});

AlertDialog obj=alert.create();

obj.show();

}

});

}

public void setC(Context c)

{

this.context=c;

}

}

OUTPUT



QUESTION 10

**Activity\_main.xml**

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

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

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".MainActivity">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Hello World!"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

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

</androidx.constraintlayout.widget.ConstraintLayout>

**option\_menu.xml**

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

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

<item android:id="@+id/i1"

android:title="item 1"

android:icon="@drawable/ic\_baseline\_search\_24" />

<item android:id="@+id/i2"

android:title="item 2"

android:icon="@drawable/ic\_baseline\_star\_24" />

<item android:id="@+id/i3"

android:title="item 3"

android:icon="@drawable/ic\_baseline\_star\_half\_24" />

</menu>

**MainActivity.java**

package com.example.menu;

import androidx.annotation.NonNull;

import androidx.appcompat.app.AppCompatActivity;

import androidx.appcompat.view.menu.MenuBuilder;

import android.annotation.SuppressLint;

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);

}

@SuppressLint("RestrictedApi")

@Override

public boolean onCreateOptionsMenu(Menu menu) {

MenuInflater inflater=getMenuInflater();

inflater.inflate(R.menu.option\_menu,menu);

if (menu instanceof MenuBuilder){

MenuBuilder n= (MenuBuilder) menu;

n.setOptionalIconsVisible(true);

}

return super.onCreateOptionsMenu(menu);

}

@Override

public boolean onOptionsItemSelected(@NonNull MenuItem item) {

Toast.makeText(this, "Selected Item"+item.getTitle(), Toast.LENGTH\_SHORT).show();

switch (item.getItemId()){

case R.id.i1:

return true;

case R.id.i2:

return true;

case R.id.i3:

return true;

default:

return super.onOptionsItemSelected(item);

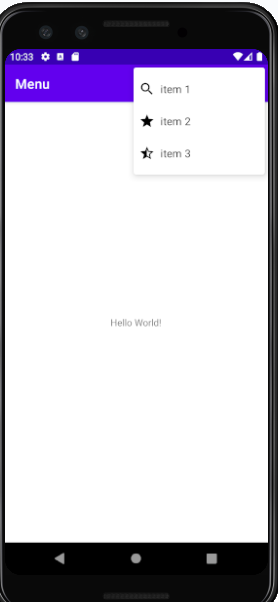
}

}

}

OUTPUT





QUESTION 11

PROCEDURE

**Activity\_main.xml**

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

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

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

tools:context=".MainActivity">

<TextView

android:id="@+id/textView"

android:layout\_width="wrap\_content"

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

<TextView

android:id="@+id/text"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Enter your UserName" />

<EditText

android:id="@+id/Name"

android:layout\_width="wrap\_content"

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

<TextView

android:id="@+id/text2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Enter your Password" />

<EditText

android:id="@+id/password"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:inputType="textPassword" />

<Button

android:id="@+id/Login"

android:layout\_width="196dp"

android:layout\_height="wrap\_content"

android:text="Login" />

</LinearLayout>

QUESTION 12

PROCEDURE

**Activity\_main.xml**

QUESTION 13

PROCEDURE

**Activity\_main.xml**

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

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

android:layout\_width="match\_parent"

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

<GridView

android:id="@+id/grid"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:numColumns="auto\_fit"

android:columnWidth="100dp"

android:verticalSpacing="10dp"

android:horizontalSpacing="10dp"

android:stretchMode="columnWidth"

android:gravity="center"/>

</RelativeLayout>

**MainActivity.java**

package com.example.gridview2;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.AdapterView;

import android.widget.ArrayAdapter;

import android.widget.GridView;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

String[] fruits = {"apple", "mango", "cherry", "lemon"};

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

GridView g = findViewById(R.id.grid);

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

g.setAdapter(arrayAdapter);

g.setOnItemClickListener(new AdapterView.OnItemClickListener() {

@Override

public void onItemClick(AdapterView<?> parent, View view, int position, long id) {

String selectedFruit = fruits[position];

Toast.makeText(MainActivity.this, "You've clicked " + selectedFruit, Toast.LENGTH\_SHORT).show();

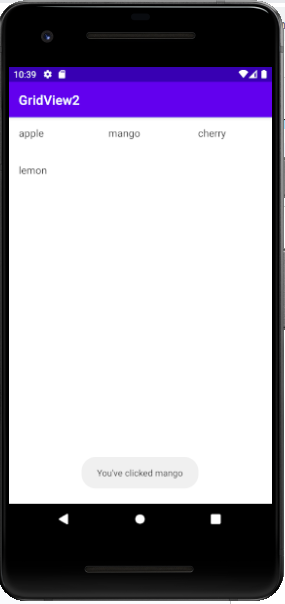
}

});

}

}

OUTPUT



QUESTION 14

PROCEDURE

**Activity\_main.xml**

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

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

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

tools:context=".MainActivity">

<GridView

android:id="@+id/grid"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:numColumns="auto\_fit"

android:columnWidth="100dp"

android:verticalSpacing="10dp"

android:horizontalSpacing="10dp"

android:stretchMode="columnWidth"

android:gravity="center"/>

</LinearLayout>

**grid\_view.xml**

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

android:gravity="center">

<ImageView

android:id="@+id/fruit\_image"

android:layout\_width="100dp"

android:layout\_height="100dp"

android:scaleType="centerCrop"/>

<TextView

android:id="@+id/fruit\_name"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:textSize="18sp"/>

</LinearLayout>

**MainActivity.java**

package com.example.gridviewimage;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.view.ViewGroup;

import android.widget.BaseAdapter;

import android.widget.GridView;

import android.widget.ImageView;

import android.widget.TextView;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

String[] fruits = {"apple", "mango", "cherry", "lemon"};

int[] fruitimages={R.drawable.apple,R.drawable.mango,R.drawable.cherry,R.drawable.lemon};

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

GridView gridView=findViewById(R.id.grid);

CustomAdapter customAdapter=new CustomAdapter();

gridView.setAdapter(customAdapter);

}

private class CustomAdapter extends BaseAdapter{

@Override

public int getCount() {

return fruitimages.length;

}

@Override

public Object getItem(int position) {

return fruitimages[position];

}

@Override

public long getItemId(int position) {

return position;

}

@Override

public View getView(int position, View convertView, ViewGroup parent) {

View gridViewItem = getLayoutInflater().inflate(R.layout.grid\_view, null);

ImageView imageView = gridViewItem.findViewById(R.id.fruit\_image);

TextView textView = gridViewItem.findViewById(R.id.fruit\_name);

imageView.setImageResource(fruitimages[position]);

textView.setText(fruits[position]);

imageView.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

// Show the fruit name as a toast message when the image is clicked

Toast.makeText(MainActivity.this, fruits[position], Toast.LENGTH\_SHORT).show();

}

});

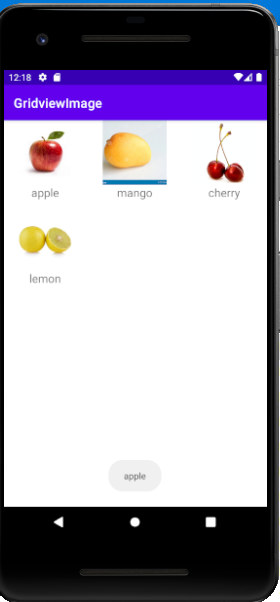
return gridViewItem;

}

}

}

OUTPUT

****

QUESTION 15

PROCEDURE

fragment

**Activity\_main.xml**

QUESTION 16

PROCEDURE

**Activity\_main.xml**

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

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

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

tools:context=".MainActivity">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Spinnner"

android:layout\_marginTop="102dp"

android:gravity="center" />

<Spinner

android:id="@+id/spinner"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginTop="35dp"/>

</LinearLayout>

**MainActivity.java**

package com.example.spinner;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.AdapterView;

import android.widget.ArrayAdapter;

import android.widget.Spinner;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

Spinner spinner;

String[] courses={ "Select a course","java","python","C","HTML","ANDROID"};

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

spinner=findViewById(R.id.spinner);

ArrayAdapter<String> aa = new ArrayAdapter<>(this,android.R.layout.simple\_spinner\_item,courses);

aa.setDropDownViewResource(androidx.appcompat.R.layout.support\_simple\_spinner\_dropdown\_item);

spinner.setAdapter(aa);

spinner.setOnItemSelectedListener(new AdapterView.OnItemSelectedListener() {

@Override

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

if (i != 0) {

Toast.makeText(getApplicationContext(),"Selected course is :"+courses[i],Toast.LENGTH\_LONG).show();

}

}

@Override

public void onNothingSelected(AdapterView<?> adapterView) {

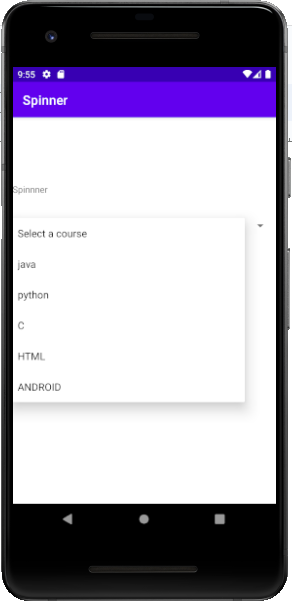
}

});

}

}

OUTPUT



QUESTION 17

PROCEDURE

**Activity\_main.xml**

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

<androidx.drawerlayout.widget.DrawerLayout xmlns:android="http://schemas.android.com/apk/res/android"

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:id="@+id/drawerLayout"

tools:context=".MainActivity">

<androidx.appcompat.widget.Toolbar

android:id="@+id/toolbar"

android:layout\_width="match\_parent"

android:layout\_height="?attr/actionBarSize"

app:popupTheme="@style/ThemeOverlay.AppCompat.Light"/>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="horizontal">

</LinearLayout>

<com.google.android.material.navigation.NavigationView

android:layout\_width="wrap\_content"

android:layout\_height="match\_parent"

android:layout\_gravity="start"

app:menu="@menu/navigation\_menu" />

</androidx.drawerlayout.widget.DrawerLayout>

**navigation\_menu.xml**

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

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

<item

android:id="@+id/ac"

android:title="My Account"

android:icon="@drawable/ic\_baseline\_account\_box\_24" />

<item

android:id="@+id/se"

android:title="Settings"

android:icon="@drawable/ic\_baseline\_settings\_24" />

<item

android:id="@+id/lg"

android:title="Logout"

android:icon="@drawable/ic\_baseline\_logout\_24" />

</menu>

**strings.xml**

<resources>

<string name="app\_name">Navigationdrawer</string>

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

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

</resources>

**MainActivity.java**

package com.example.navigationdrawer;

import androidx.annotation.NonNull;

import androidx.appcompat.app.ActionBarDrawerToggle;

import androidx.appcompat.app.AppCompatActivity;

import androidx.appcompat.widget.Toolbar;

import androidx.drawerlayout.widget.DrawerLayout;

import android.os.Bundle;

import android.view.MenuItem;

public class MainActivity extends AppCompatActivity {

DrawerLayout drawerLayout;

ActionBarDrawerToggle actionBarDrawerToggle;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

drawerLayout=findViewById(R.id.drawerLayout);

actionBarDrawerToggle=new ActionBarDrawerToggle(this,drawerLayout,R.string.nav\_open,R.string.nav\_close);

drawerLayout.addDrawerListener(actionBarDrawerToggle);

actionBarDrawerToggle.syncState();

getSupportActionBar().setDisplayHomeAsUpEnabled(true);

getSupportActionBar().setHomeAsUpIndicator(R.drawable.ic\_baseline\_view\_sidebar\_24);

}

@Override

public boolean onOptionsItemSelected(@NonNull MenuItem item) {

if(actionBarDrawerToggle.onOptionsItemSelected(item))

{

return true;

}

return super.onOptionsItemSelected(item);

}

}

OUTPUT



QUESTION 18

PROCEDURE

**Activity\_main.xml**

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

android:padding="16dp">

<!-- <EditText-->

<!-- android:id="@+id/editTextId"-->

<!-- android:layout\_width="match\_parent"-->

<!-- android:layout\_height="wrap\_content"-->

<!-- android:hint="ID"-->

<!-- android:inputType="number" />-->

<EditText

android:id="@+id/editTextName"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Name"

android:inputType="text" />

<EditText

android:id="@+id/editTextRollNo"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Roll Number"

android:inputType="number" />

<EditText

android:id="@+id/editTextAddress"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Address"

android:inputType="text" />

<Button

android:id="@+id/btnInsert"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Insert"

android:onClick="Insert"/>

<Button

android:id="@+id/btnUpdate"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Update"

android:onClick="update"/>

<Button

android:id="@+id/btnDelete"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Delete"

android:onClick="Delete"/>

<Button

android:id="@+id/btnRead"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="View"

android:onClick="View"/>

</LinearLayout>

**DbHelper.java**

package com.example.mad\_crud;

import android.content.Context;

import android.database.sqlite.SQLiteDatabase;

import android.database.sqlite.SQLiteOpenHelper;

import androidx.annotation.Nullable;

public class DbHelper extends SQLiteOpenHelper {

public DbHelper(@Nullable Context context) {

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

}

@Override

public void onCreate(SQLiteDatabase sqLiteDatabase) {

sqLiteDatabase.execSQL("create table tbl\_stud(rollno int,name varchar(10),address varchar(30))");

}

@Override

public void onUpgrade(SQLiteDatabase sqLiteDatabase, int i, int i1) {

}

}

**MainActivity.java**

package com.example.mad\_crud;

import androidx.appcompat.app.AppCompatActivity;

import android.content.ContentValues;

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 e1,e2,e3;

SQLiteDatabase db;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

DbHelper helper=new DbHelper(this);

db=helper.getReadableDatabase();

db=helper.getWritableDatabase();

e1=findViewById(R.id.editTextRollNo);

e2=findViewById(R.id.editTextName);

e3=findViewById(R.id.editTextAddress);

}

public void Delete(View view) {

String r=e1.getText().toString();

if(r.equals("")){

Toast.makeText(this, "Please Enter The Data", Toast.LENGTH\_SHORT).show();

}

else {

ContentValues data = new ContentValues();

data.put("rollno", r);

db.delete("tbl\_stud","rollno="+r,null);

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

}

}

public void View(View view) {

StringBuffer buffer=new StringBuffer();

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

while(c.moveToNext()){

buffer.append("ROLLNO"+c.getString(0)+"\t");

buffer.append("NAME"+c.getString(1)+"\t");

buffer.append("ADDRESS"+c.getString(2)+"\t");

}

Toast.makeText(this, buffer.toString(), Toast.LENGTH\_LONG).show();

}

public void Insert(View view) {

String r=e1.getText().toString();

String n=e2.getText().toString();

String a=e3.getText().toString();

if(r.equals("")||n.equals("")||a.equals("")){

Toast.makeText(this, "Please Enter The Data", Toast.LENGTH\_SHORT).show();

}

else {

ContentValues data = new ContentValues();

data.put("rollno", r);

data.put("name", n);

data.put("address", a);

db.insert("tbl\_stud", null, data);

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

}

}

public void update(View view) {

String r=e1.getText().toString();

String n=e2.getText().toString();

String a=e3.getText().toString();

if(r.equals("")||n.equals("")||a.equals("")){

Toast.makeText(this, "Please Enter The Data", Toast.LENGTH\_SHORT).show();

}

else {

ContentValues data = new ContentValues();

data.put("rollno", r);

data.put("name", n);

data.put("address", a);

db.update("tbl\_stud",data,"rollno="+r,null);

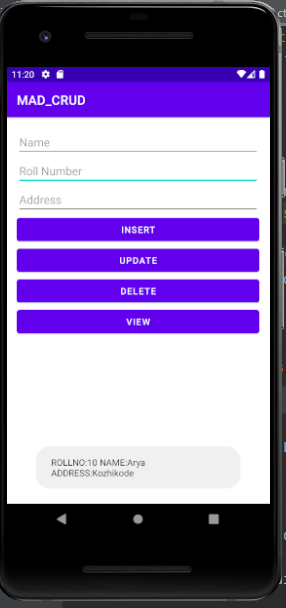
Toast.makeText(this, "Updated Successfully", Toast.LENGTH\_SHORT).show();

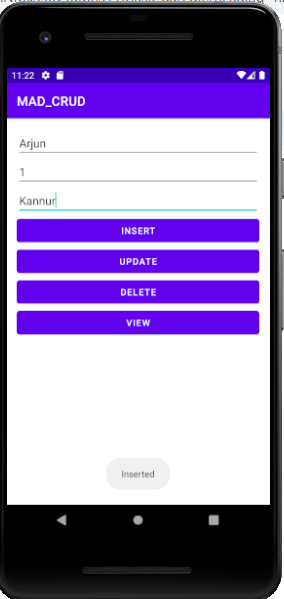
}

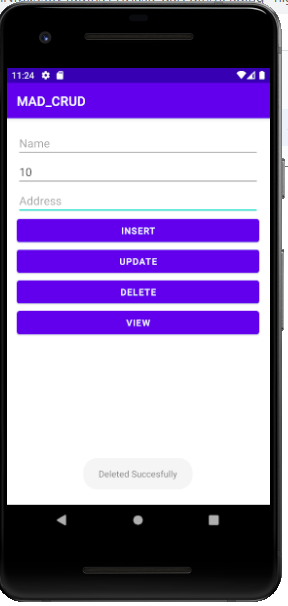
}

}

OUTPUT

****

****

****