EXNO	DATE	PROGRAM	PAGE NO	SIGNATURE
1(A)		DEVELOP AN ANDROID		
		APPLICATION TO FIND THE		
		GREATEST AMONG THREE		
		NUMBERS		
1(B)		DEVELOP AN ANDROID		
		APPLICATION TO FIND THE		
		SMALLEST AMONG TWO		
		NUMBERS		
2		ANDROID APPLICATION THAT		
		USE GUI COMPONENTS FONT		
		AND COLOR		
3		ANDROID APPLICATION TO		
		DRAW BASIC PRIMITIVES		
4		ANDRIOD APPLICATION TO		
		DISPLAY BASIC		
		INFORMATION		
5		ANDROID APPLICATION OF		
		RADIO BUTTON		
6		DEVELOP AN ANDRIOD		
		APPLICATION USING IMAGE		
		BUTTON		
7		DEVELOP AN ANDROID		
		APPLICATION FOR ALERT		
		DIALOGUE BOX		
8		DEVELOP AN ANDROID		
		APPLICATION USING		
		MANAGERS		
9(A)		DEVELOP AN ANDROID		
- ()		APPLICATION USING LINEAR		
		LAYOUT-VERTICAL		
9(B)		DEVELOP AN ANDROID		
		APPLICATION USING LINEAR		
		LAYOUT-HORIZONTAL		
10		DEVELOP AN ANDROID		
		APPLICATION USING		
		RELATIVE.		
11		DEVELOP AN ANDROID		
		APPLICATION THAT USER		
		AUDIO MODE		
12		DEVELOP AN ANDROID		
		APPLICATION THAT USES TO		
		SEND MESSAGE FROM ONE		
		MOBILE TO ANOTHER		
		MOBILE		
13		DEVELOP AN ANDROID		
		APPLICATION THAT USES TO		
		SEND EMAIL		

14	DEVELOP AN ANDROID	
	APPLICATION FOR MOBILE	
	CALLS	
15	DEVELOP AN ANDROID	
	APPLICATION FOR STUDENT	
	MARK SHEET PROCESSING	
16	DEVELOP AN ANDROID	
	APPLICATION FOR PAYROLL	
	PROCESSING	
17	DEVELOP AN ANDROID	
	APPLICATION FOR LOGIN	
	PAGE CREATION	
18	DEVELOP AN ANDROID	
	APPLICATION FOR GOOGLE	
	MAP LOCATOR	

EX NO: 1(A)

DATE:

DEVELOP AN ANDROID APPLICATION TO FIND THE LARGEST AMONG THREE NUMBERS

```
package com.example.myapplication;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity extends AppCompatActivity {
  private EditText mEditText1, mEditText2, mEditText3;
  private TextView mTextViewResult;
  private Button mButton;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
    mEditText1 = findViewById(R.id.editText1);
    mEditText2 = findViewById(R.id.editText2);
    mEditText3 = findViewById(R.id.editText3);
    mTextViewResult = findViewById(R.id.textViewResult);
    mButton = findViewById(R.id.button);
    mButton.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View v) {
         findLargestNumber();
       }
    });
```

```
}
  private void findLargestNumber() {
    String text1 = mEditText1.getText().toString();
    String text2 = mEditText2.getText().toString();
    String text3 = mEditText3.getText().toString();
    if (text1.isEmpty()) text1 = "0";
    if (\text{text2.isEmpty}()) text2 = "0";
    if (\text{text3.isEmpty}()) text3 = "0";
    int num1 = Integer.parseInt(text1);
    int num2 = Integer.parseInt(text2);
    int num3 = Integer.parseInt(text3);
    int largest = num3 > (num1 > num2 ? num1 : num2) ? num3 : (num1 > num2 ? num1 : num2);
    mTextViewResult.setText("Largest Number: " + largest);
  }
}
Activity main.xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  android:layout_width="match_parent"
  android:layout height="match parent"
  android:padding="16dp">
  <EditText
    android:id="@+id/editText1"
    android:layout width="match parent"
    android:layout height="wrap content"
    android:hint="Enter number 1"
```

android:inputType="number" />

android:id="@+id/editText2"

android:layout width="match parent"

android:layout height="wrap content"

<EditText

```
android:hint="Enter number 2"
    android:inputType="number"
    android:layout below="@id/editText1"
    android:layout marginTop="16dp" />
  <EditText
    android:id="@+id/editText3"
    android:layout width="match parent"
    android:layout height="wrap content"
    android:hint="Enter number 3"
    android:inputType="number"
    android:layout below="@id/editText2"
    android:layout marginTop="16dp" />
  <Button
    android:id="@+id/button"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="Find Largest"
    android:layout below="@id/editText3"
    android:layout marginTop="16dp"
    android:layout centerHorizontal="true" />
  <TextView
    android:id="@+id/textViewResult"
    android:layout_width="wrap content"
    android:layout height="wrap content"
    android:text="Largest Number: "
    android:layout below="@id/button"
    android:layout marginTop="16dp"
    android:layout_centerHorizontal="true"
    android:textSize="18sp" />
</RelativeLayout>
```

11:34 🖪 🍵 🛇	7 48
Number 1:	
_10	
Number 2:	
20	
Number 3:	
30	
Find Largest	
Largest Number: 30	
HUSAIN ABBAS E22CA016	

EX NO: 1(B)

DATE:

DEVELOP AN ANDROID APPLICATION TO FIND THE SMALLEST AMONG TWO NUMBERS

```
package com.example.smallest;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity extends AppCompatActivity {
  private EditText mEditText1, mEditText2;
  private TextView mTextViewResult;
  private Button mButton;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
    mEditText1 = findViewById(R.id.edittext number 1);
    mEditText2 = findViewById(R.id.edittext number 2);
    mTextViewResult = findViewById(R.id.textview result);
    mButton = findViewById(R.id.button);
    mButton.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View v) {
         findSmallestNumber();
       }
    });
```

```
private void findSmallestNumber() {
    String text1 = mEditText1.getText().toString();
    String text2 = mEditText2.getText().toString();
    if (text1.isEmpty()) text1 = "0";
    if (\text{text2.isEmpty}()) text2 = "0";
    int num1 = Integer.parseInt(text1);
    int num2 = Integer.parseInt(text2);
    int smallest = (num1 < num2) ? num1 : num2;
    mTextViewResult.setText("Smallest Number: " + smallest);
  }
Activity main.xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  android:layout width="match parent"
  android:layout height="match parent"
  android:orientation="vertical"
  android:padding="16dp">
  <!-- TextView for Number 1 -->
  <TextView
    android:id="@+id/textView"
    android:layout width="match parent"
    android:layout height="wrap content"
    android:text="Enter Number 1" />
  <!-- EditText for Number 1 -->
  <EditText
    android:id="@+id/edittext number 1"
    android:layout width="match parent"
    android:layout height="wrap content"
    android:hint="Enter the first number"
    android:inputType="number" />
  <!-- TextView for Number 2 -->
```

```
<TextView
    android:layout width="match parent"
    android:layout height="wrap content"
    android:text="Enter Number 2"
    android:layout marginTop="16dp" />
  <!-- EditText for Number 2 -->
  <EditText
    android:id="@+id/edittext_number_2"
    android:layout width="match parent"
    android:layout height="wrap content"
    android:hint="Enter the second number"
    android:inputType="number" />
  <!-- Button to find the smallest number -->
  <Button
    android:id="@+id/button"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="Find Smallest"
    android:layout marginTop="16dp"
    android:layout gravity="center horizontal"/>
  <!-- TextView to display the result -->
  <TextView
    android:id="@+id/textview result"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="Smallest Number: "
    android:layout marginTop="16dp"
    android:layout gravity="center horizontal"
    android:textSize="18sp" />
</LinearLayout>
```

11:45 🔼 🆀 🛇 Enter Number 1	
10	
Enter Number 2	
20	
Find Smallest	
Smallest Number: 10	
HUSAIN ABBAS E22CA016	

DATE:

DEVELOP AN ANDROID APPLICATION THAT USES GUI COMPONENTS FONTS AND COLORS

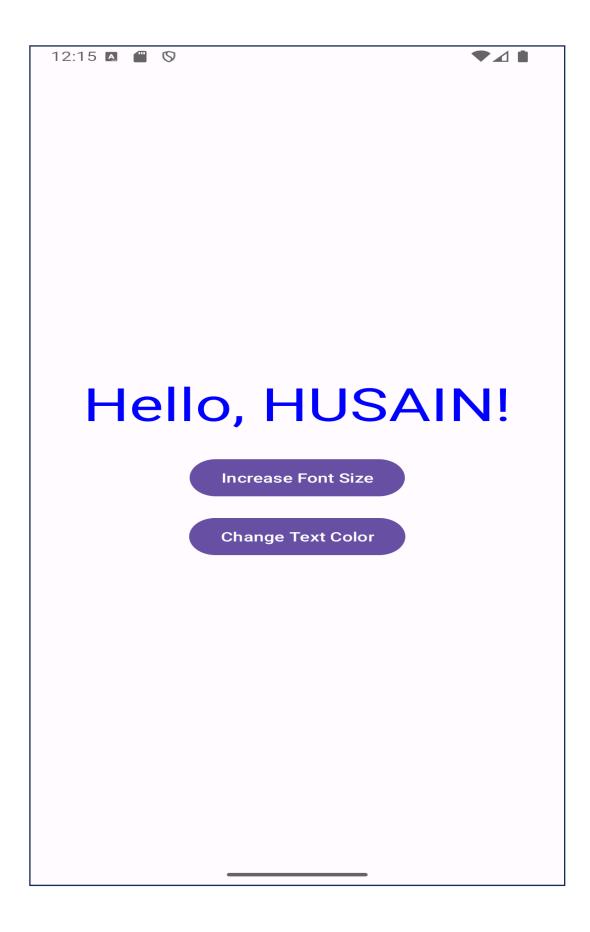
```
import android.graphics.Color;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity extends AppCompatActivity {
  int ch = 1;
  float font = 30;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
    final TextView t = findViewById(R.id.textView);
    Button b1 = findViewById(R.id.button1);
    Button b2 = findViewById(R.id.button2);
    b1.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View v) {
         t.setTextSize(font);
         font += 5; // Increase font size by 5
         if (font > 50) { // Reset font size if it exceeds 50
            font = 30;
         }
    });
```

```
b2.setOnClickListener(new View.OnClickListener() {
  @Override
  public void onClick(View v) {
    switch (ch) {
       case 1:
         t.setTextColor(Color.RED);
         break;
       case 2:
         t.setTextColor(Color.GREEN);
         break;
       case 3:
         t.setTextColor(Color.BLUE);\\
         break;
       case 4:
         t.setTextColor(Color.CYAN);
         break;
       case 5:
         t.setTextColor(Color.YELLOW);
         break;
       case 6:
         t.setTextColor(Color.MAGENTA);
         break;
    }
    ch++;
    if (ch > 6) { // Reset color cycle
       ch = 1;
  }
});
```

}

Activity main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  android:orientation="vertical"
  android:padding="16dp"
  android:gravity="center">
  <!-- TextView to display text -->
  <TextView
    android:id="@+id/textView"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:text="Hello, Android!"
    android:textSize="30sp"
    android:textColor="#000000"
    android:layout marginBottom="24dp" />
  <!-- Button to increase font size -->
  <Button
    android:id="@+id/button1"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="Increase Font Size"
    android:layout marginBottom="16dp" />
  <!-- Button to change text color -->
  <Button
    android:id="@+id/button2"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="Change Text Color" />
</LinearLayout>
```



DATE:

DEVELOP AN ANDROID APPLICATION TO DRAW BASIC GRAPHICAL PRIMITIVES

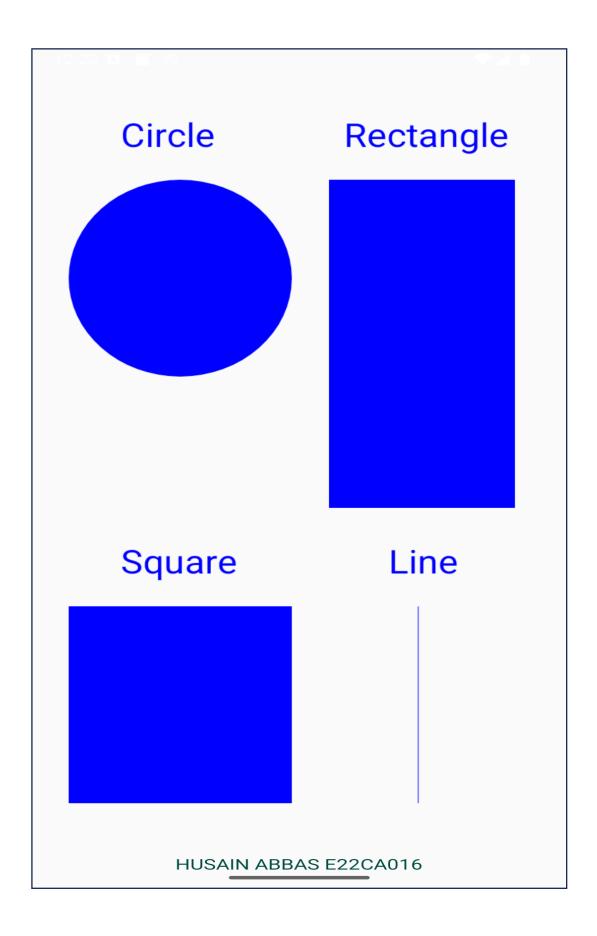
```
package com.example.exno3;
import android.app.Activity;
import android.graphics.Bitmap;
import android.graphics.Canvas;
import android.graphics.Color;
import android.graphics.Paint;
import android.graphics.drawable.BitmapDrawable;
import android.os.Bundle;
import android.widget.ImageView;
public class MainActivity extends Activity {
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
    Bitmap bg = Bitmap.createBitmap(720, 1280, Bitmap.Config.ARGB 8888);
    ImageView imageView = findViewById(R.id.imageView);
    imageView.setBackground(new BitmapDrawable(getResources(), bg));
    Canvas canvas = new Canvas(bg);
    Paint paint = new Paint();
    paint.setColor(Color.BLUE);
    paint.setTextSize(50);
```

```
canvas.drawText("Rectangle", 420, 150, paint);
canvas.drawRect(400, 200, 650, 700, paint);
canvas.drawText("Circle", 120, 150, paint);
canvas.drawCircle(200, 350, 150, paint);
canvas.drawText("Square", 120, 800, paint);
canvas.drawRect(50, 850, 350, 1150, paint);
canvas.drawText("Line", 480, 800, paint);
canvas.drawLine(520, 850, 520, 1150, paint);
}
```

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">
<!-- ImageView to display the drawing -->
<ImageView
android:id="@+id/imageView"
android:layout_width="match_parent"
android:layout_height="match_parent" />
</RelativeLayout>
```

<u>OUTPUT</u>



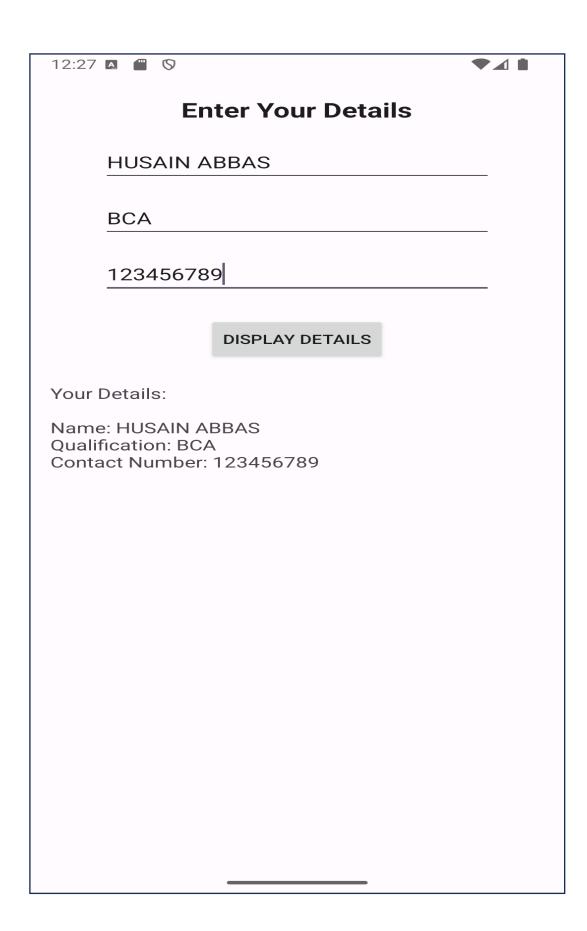
DATE:

DEVELOP AN ANDROID APPLICATION TO DISPLAY BASIC INFORMATION

```
package com.example.basicdetails;
import android.app.Activity;
import android.os.Bundle;
import android.text.method.ScrollingMovementMethod;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
public class MainActivity extends Activity {
  private Button b;
  private EditText sname, squal, snumber;
  private TextView tv;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    b = findViewById(R.id.click);
    tv = findViewById(R.id.display);
    sname = findViewById(R.id.name);
    squal = findViewById(R.id.qual);
    snumber = findViewById(R.id.mobileno);
    tv.setMovementMethod(new ScrollingMovementMethod());
    b.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View v) {
         String name = sname.getText().toString();
         String qual = squal.getText().toString();
         String number = snumber.getText().toString();
```

```
tv.set Text ("Your Details: \n\nName: "+name + "\nQualification: "+qual + "\nContact") \\
Number: " + number + "\n");
       }
    });
  }
Activity main.xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  android:layout width="match parent"
  android:layout height="match parent"
  android:gravity="center horizontal"
  android:orientation="vertical"
  android:padding="16dp">
  <!-- Title -->
  <TextView
    android:id="@+id/title"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:layout marginTop="30dp"
    android:layout marginBottom="20dp"
    android:text="Enter Your Details"
    android:textAppearance="?android:attr/textAppearanceLarge"
    android:textStyle="bold" />
  <!-- EditText for Name -->
  <EditText
    android:id="@+id/name"
    android:layout width="300dp"
    android:layout height="wrap content"
    android:hint="Your Name"
    android:inputType="textPersonName"
    android:ems="10">
```

```
<requestFocus />
  </EditText>
  <!-- EditText for Qualification -->
  <EditText
    android:id="@+id/qual"
    android:layout width="300dp"
    android:layout height="wrap content"
    android:layout_marginTop="16dp"
    android:hint="Your Qualification"
    android:inputType="text" />
  <!-- EditText for Mobile Number -->
  <EditText
    android:id="@+id/mobileno"
    android:layout_width="300dp"
    android:layout_height="wrap_content"
    android:layout marginTop="16dp"
    android:hint="Your Contact Number"
    android:inputType="phone" />
  <!-- Button to Display Details -->
  <TextView
    android:id="@+id/display"
    android:layout width="match parent"
    android:layout height="wrap content"
    android:layout marginTop="24dp"
    android:scrollbars="vertical"
    android:text="Your Details will be displayed here..."
    android:textSize="16sp" />
</LinearLayout>
```



DATE:

DEVELOP AN ANDROID APPLICATION OF RADIO BUTTON

```
package com.example.radio;
import android.os.Bundle;
import android.view.View;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity extends AppCompatActivity {
  private RadioGroup radioGroup;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
    radioGroup = findViewById(R.id.radioGroup);
  }
  public void onclickbuttonMethod(View v) {
    int selectedId = radioGroup.getCheckedRadioButtonId();
    if (selectedId == -1) { // Check if no radio button is selected
       Toast.makeText(MainActivity.this, "Nothing selected", Toast.LENGTH SHORT).show();
    } else {
      // Find the selected RadioButton
       RadioButton selectedRadioButton = findViewById(selectedId);
      Toast.makeText(MainActivity.this, "Selected: " + selectedRadioButton.getText(),
Toast.LENGTH SHORT).show();
    }
}
```

Activity main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
  xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout height="match parent"
  android:orientation="vertical"
  android:padding="16dp"
  <RadioGroup
    android:id="@+id/radioGroup"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:orientation="vertical">
    <!-- RadioButton 1 -->
    <RadioButton
      android:id="@+id/radio1"
      android:layout width="wrap content"
      android:layout height="wrap content"
      android:text="Computer Science"
      android:layout marginTop="10dp"
      android:textSize="20sp" />
  <!-- Submit Button -->
  <Button
    android:id="@+id/submitButton"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:layout marginTop="30dp"
    android:onClick="onclickbuttonMethod"
    android:text="Submit"/>
</LinearLayout>
```



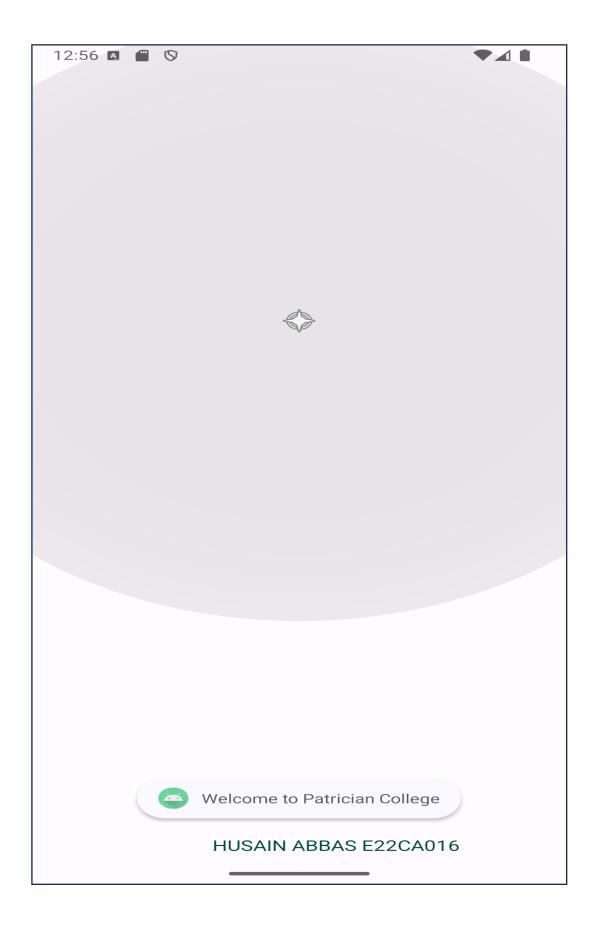
DATE:

DEVELOP AN ANDROID APPLICATION THAT USING IMAGE BUTTON

```
package com.example.imagebutton;
import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.widget.ImageButton;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity extends AppCompatActivity {
  private ImageButton pcasImageButton;
 @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
    pcasImageButton = findViewById(R.id.imageButton);
    pcasImageButton.setOnClickListener(view -> {
       Toast.makeText(MainActivity.this, "Welcome to Patrician College",
Toast.LENGTH SHORT).show();
       String url = "https://patriciancollege.ac.in";
       Intent intent = new Intent(Intent.ACTION VIEW);
       intent.setData(Uri.parse(url));
       startActivity(intent);
    });
```

Activity main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  android:padding="16dp"
  android:gravity="center">
  <!-- ImageButton to open the college website -->
  <ImageButton
    android:id="@+id/imageButton"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:src="@android:drawable/ic_dialog_info" <!-- Default Android icon -->
    android:contentDescription="Patrician College"
    and roid: background = "?attr/selectable I tem Background Border less" \\
    android:padding="16dp" />
</RelativeLayout>
```

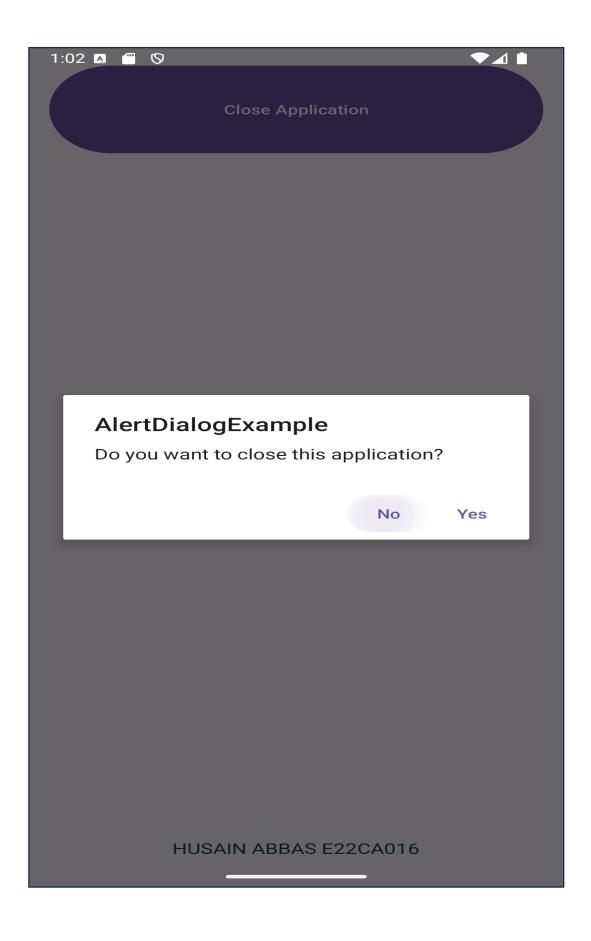


DATE:

DEVELOP AN ANDROID APPLICATION FOR ALERT DIALOG BOX

```
package com.example.alert;
import android.content.DialogInterface;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity extends AppCompatActivity {
  private Button closeButton;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
    closeButton = findViewById(R.id.button);
    closeButton.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View v) {
         AlertDialog.Builder builder = new AlertDialog.Builder(MainActivity.this);
         builder.setTitle("AlertDialogExample")
             .setMessage("Do you want to close this application?")
             .setCancelable(false) // Prevent dismissing the dialog by tapping outside
             .setPositiveButton("Yes", new DialogInterface.OnClickListener() {
                @Override
                public void onClick(DialogInterface dialog, int id) {
                  finish();
                  Toast.makeText(getApplicationContext(), "You chose YES action for the alert
box", Toast.LENGTH SHORT).show();
                }
```

```
})
             .setNegativeButton("No", new DialogInterface.OnClickListener() {
                @Override
                public void onClick(DialogInterface dialog, int id) {
                  dialog.cancel();
                  Toast.makeText(getApplicationContext(), "You chose NO action for the alert box",
Toast.LENGTH_SHORT).show();
                }
             });
         AlertDialog alert = builder.create();
         alert.show();
    });
Activity main.xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  xmlns:tools="http://schemas.android.com/tools"
  android:layout width="match parent"
  android:layout height="match parent"
  android:padding="16dp"
  tools:context=".MainActivity"
  <!-- Button to trigger the AlertDialog -->
  <Butt
    android:id="@+id/button"
    android:layoutwidth="wrap content"
    android:layout_height="wrap_content"
    android:text="Close Application"
    android:layout centerInParent="true" />
</RelativeLayout>
```

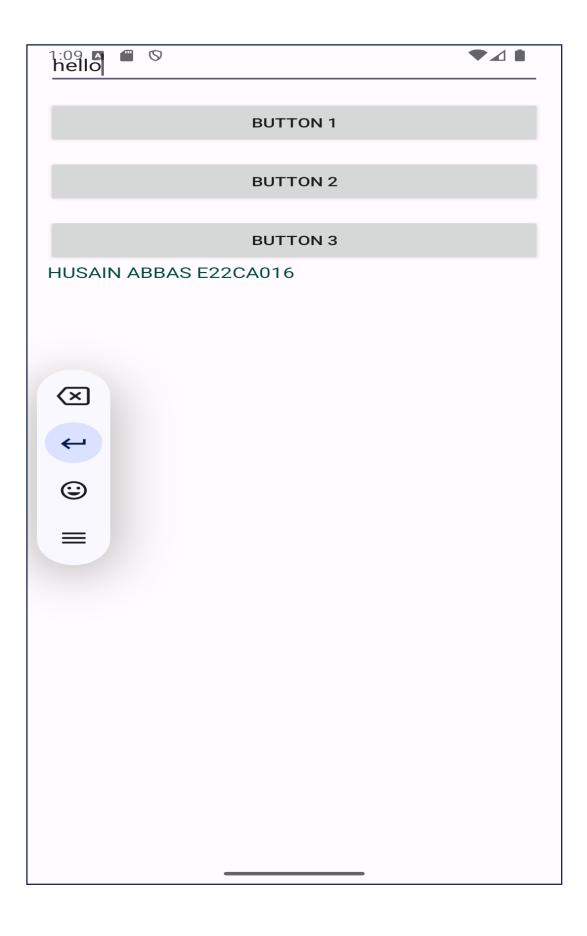


DATE:

DEVELOP AN ANDROID APPLICATION THAT USING LAYOUT MANAGER

```
package com.example.layoutmanager;
import android.app.Activity;
import android.os.Bundle;
public class MainActivity extends Activity {
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
  }
}
Activity main.xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  android:layout_width="match_parent"
  android:layout height="match parent"
  android:paddingLeft="16dp"
  android:paddingRight="16dp">
  <!-- EditText at the top -->
  <EditText
    android:id="@+id/name"
    android:layout_width="match_parent"
    android:layout height="wrap content"
    android:hint="Enter your reminder" />
  <!-- LinearLayout below the EditText -->
  <LinearLayout
    android:layout width="match parent"
```

```
android:layout_height="wrap_content"
    android:orientation="vertical"
    android:layout below="@id/name"
    android:layout marginTop="16dp">
    <!-- Button 1 -->
    <Button
      android:id="@+id/button1"
      android:layout_width="match_parent"
      android:layout height="wrap content"
      android:text="Button 1" />
    <!-- Button 2 -->
    <Button
      android:id="@+id/button2"
      android:layout width="match parent"
      android:layout height="wrap content"
      android:text="Button 2"
      android:layout_marginTop="16dp" />
    <!-- Button 3 -->
    <Button
      android:id="@+id/button3"
      android:layout_width="match_parent"
      android:layout height="wrap content"
      android:text="Button 3"
      android:layout marginTop="16dp"/>
  </LinearLayout>
</RelativeLayout>
```



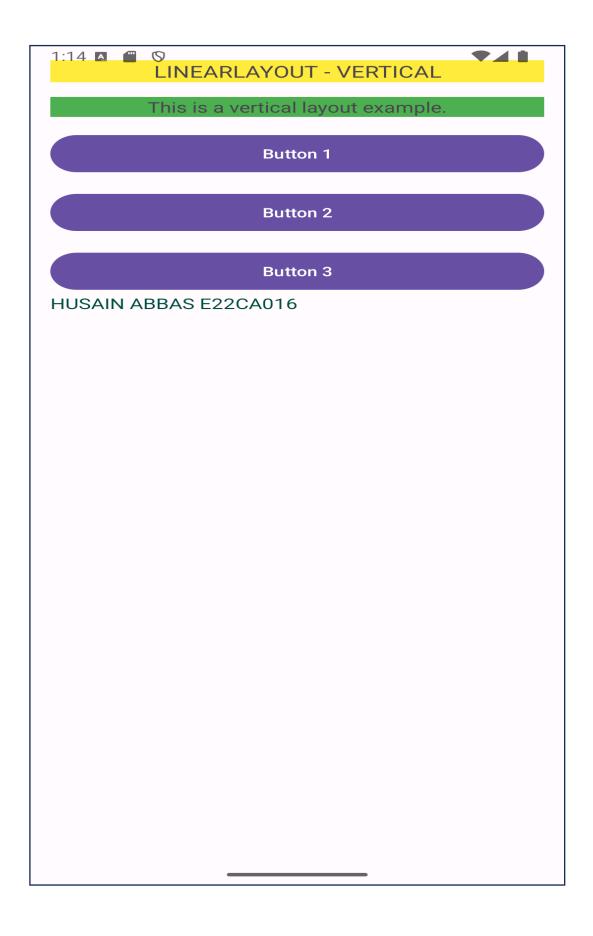
EX NO: 9(A)

DATE:

DEVELOP AN ANDROID APPLICATION THAT USES LINEAR LAYOUT - VERTICAL

```
package com.example.linearlayout;
import android.os.Bundle;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity extends AppCompatActivity {
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
  }
Activity main.xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  android:layout width="match parent"
  android:layout height="match parent"
  android:orientation="vertical"
  android:padding="16dp">
  <!-- TextView 1 -->
  <TextView
    android:id="@+id/textview1"
    android:layout width="match parent"
    android:layout height="wrap content"
    android:background="#FFEB3B"
    android:text="LinearLayout - Vertical"
    android:textAlignment="center"
    android:textAllCaps="true"
    android:textSize="18sp"
    android:layout marginBottom="16dp" />
```

```
<!-- TextView 2 -->
  <TextView
    android:id="@+id/textview2"
    android:layout width="match parent"
    android:layout height="wrap content"
    android:background="#4CAF50"
    android:text="This is a vertical layout example."
    android:textAlignment="center"
    android:textSize="16sp"
    android:layout marginBottom="16dp" />
  <!-- Button 1 -->
  <Button
    android:id="@+id/button1"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Button 1"
    android:layout marginBottom="16dp" />
  <!-- Button 2 -->
  <Button
    android:id="@+id/button2"
    android:layout width="match parent"
    android:layout height="wrap content"
    android:text="Button 2"
    android:layout marginBottom="16dp" />
  <!-- Button 3 -->
  <Button
    android:id="@+id/button3"
    android:layout width="match parent"
    android:layout height="wrap content"
    android:text="Button 3" />
</LinearLayout>
```



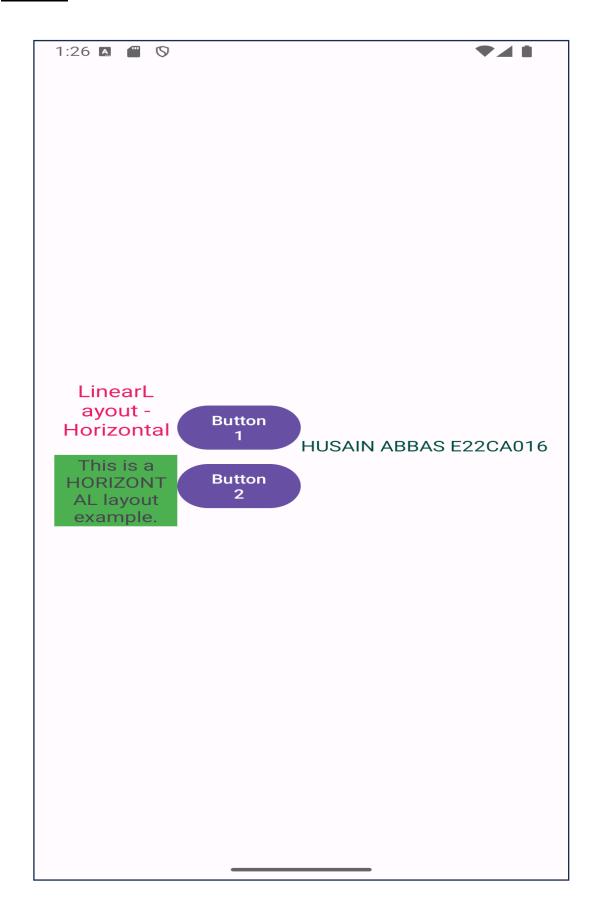
EX NO: 9(B)

DATE:

DEVELOP AN ANDROID APPLICATION THAT USES LINEAR LAYOUT - HORIZONTAL

```
package com.example.linearlayout;
import android.os.Bundle;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity extends AppCompatActivity {
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
  }
}
Activity main.xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  android:layout width="match parent"
  android:layout height="match parent"
  android:orientation="horizontal"
  android:padding="16dp">
  <!-- TextView -->
  <TextView
    android:id="@+id/textView2"
    android:layout width="0dp"
    android:layout height="wrap content"
    android:layout weight="1"
    android:text="LinearLayout - Horizontal"
    android:textColor="#E91E63"
    android:textSize="18sp"
```

```
android:textAlignment="center"
    android:gravity="center" />
  <!-- Button 1 -->
  <Button
    android:id="@+id/btnca"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="Button 1"
    android:textAllCaps="false" />
  <!-- Button 2 -->
  <Button
    android:id="@+id/btn2"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="Button 2"
    android:textAllCaps="false" />
</LinearLayout>
```



DATE:

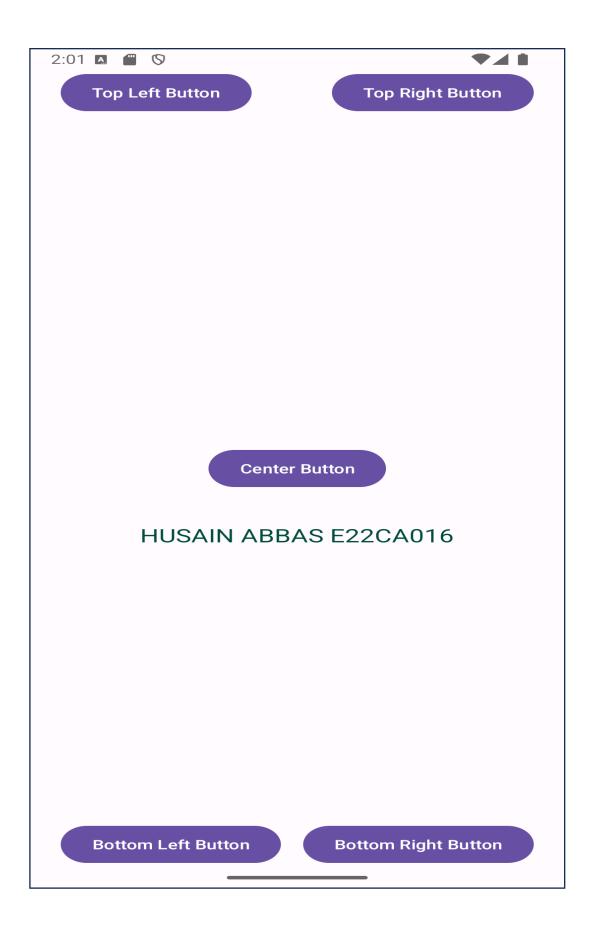
DEVELOP AN ANDROID APPLICATION THAT USING RELATIVE LAYOUT

MainActivity.java

```
package com.example.relativelayout;
import android.os.Bundle;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity extends AppCompatActivity {
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
  }
}
Activity main.xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  android:layout_width="match_parent"
  android:layout height="match parent"
  android:padding="16dp">
  <!-- Button 1: Top Left -->
  <Button
    android:id="@+id/button1"
    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:text="Top Left Button"
    android:layout alignParentLeft="true"
    android:layout alignParentTop="true"
```

android:layout_margin="8dp" />

```
<!-- Button 2: Top Right -->
  <Button
    android:id="@+id/button2"
    android:layout width="wrap content"
    android:layout_height="wrap content"
    android:text="Top Right Button"
    android:layout alignParentRight="true"
    android:layout alignParentTop="true"
    android:layout margin="8dp"/>
  <!-- Button 3: Bottom Left -->
  <Button
    android:id="@+id/button3"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="Bottom Left Button"
    android:layout alignParentLeft="true"
    android:layout alignParentBottom="true"
    android:layout margin="8dp"/>
  <!-- Button 4: Bottom Right -->
  <Button
    android:id="@+id/button4"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="Bottom Right Button"
    android:layout alignParentRight="true"
    android:layout alignParentBottom="true"
    android:layout margin="8dp"/>
</RelativeLayout>
```

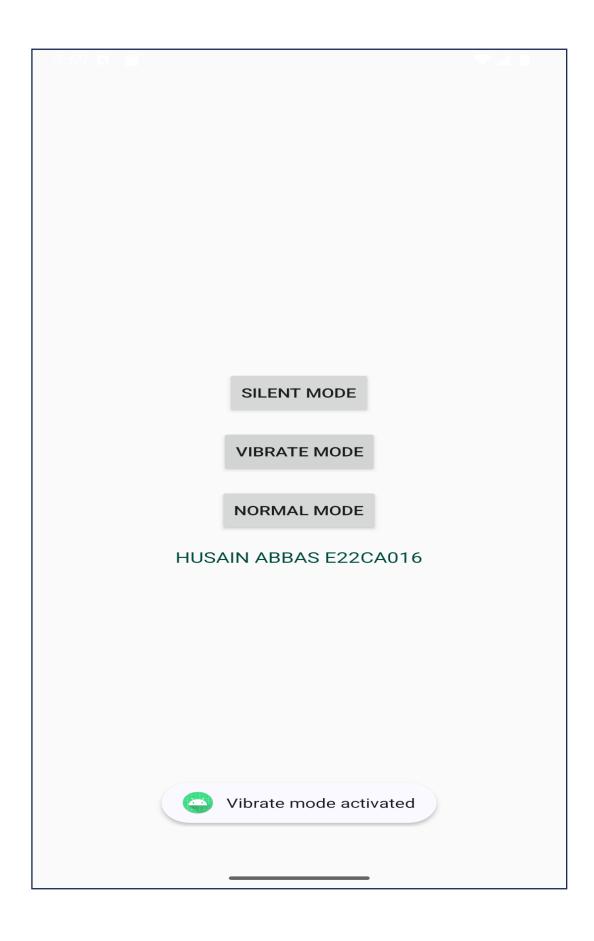


DATE:

DEVELOP AN ANDROID APPLICATION THAT USES AUDIO MODE (NORMAL SILENT VIBRATE)

```
package com.example.audiomode;
import android.media.AudioManager;
import android.os.Bundle;
import android.app.Activity;
import android.content.Context;
import android.view.View;
public class MainActivity extends Activity {
  private Button b1, b2, b3;
  private AudioManager am;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
    b1 = findViewById(R.id.button1);
    b2 = findViewById(R.id.button2);
    b3 = findViewById(R.id.button3);
    am = (AudioManager) getSystemService(Context.AUDIO SERVICE);
    b1.setOnClickListener(new View.OnClickListener() {
      @Override
      public void onClick(View v) {
         am.setRingerMode(AudioManager.RINGER MODE SILENT);
         Toast.makeText(MainActivity.this, "Silent mode activated",
Toast.LENGTH SHORT).show();
      @Override
      public void onClick(View v) {
         am.setRingerMode(AudioManager.RINGER MODE VIBRATE);
         Toast.makeText(MainActivity.this, "Vibrate mode activated",
Toast.LENGTH SHORT).show();
```

```
b3.setOnClickListener(new View.OnClickListener() {
      public void onClick(View v) {
         am.setRingerMode(AudioManager.RINGER MODE NORMAL);
         Toast.makeText(MainActivity.this, "Normal mode activated",
Toast.LENGTH_SHORT).show();
      }
    });
}
Activity main.xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  android:layout width="match parent"
  android:orientation="vertical"
  android:padding="16dp"
  android:gravity="center">
  <!-- Button for Silent Mode -->
  <Button
    android:id="@+id/button1"
    android:text="Silent Mode"
    android:layout marginBottom="16dp"/>
  <!-- Button for Vibrate Mode -->
  <Button
    android:id="@+id/button2"
    android:layout_width="wrap_content"
    android:text="Vibrate Mode"
    android:layout marginBottom="16dp"/>]
  <!-- Button for Normal Mode -->
  <Button
    android:id="@+id/button3"
    android:layout height="wrap content"
    android:text="Normal Mode" />
</LinearLayout>
```



DATE:

DEVELOP AN ANDROID APPLICATION THAT USES TO SEND MESSAGES FROM ONE MOBILE TO ANOTHER MOBILE

AndroidManifest.xml

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"</pre>
  package="com.example.sendsms">
  <!-- Permission to send SMS -->
  <uses-permission android:name="android.permission.SEND SMS" />
  <!-- Permission to access the internet (not required for SMS, but included as per your
request) -->
</manifest>
MainActivity.java
package com.example.sendsms;
import android. Manifest;
import android.content.pm.PackageManager;
import android.os.Bundle;
import android.telephony.SmsManager;
import android.view.View;
import android.widget.EditText;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.app.ActivityCompat;
  private static final int SMS PERMISSION CODE = 1;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
    if (ActivityCompat.checkSelfPermission(this, Manifest.permission.SEND SMS) !=
PackageManager.PERMISSION GRANTED) {
```

ActivityCompat.requestPermissions(this, new String[]{Manifest.permission.SEND SMS},

```
public void onMessage(View v) {
    String phoneNumber = et1.getText().toString();
    String message = et2.getText().toString();
    if (phoneNumber.isEmpty() || message.isEmpty()) {
       Toast.makeText(this, "Please enter a phone number and message.",
To a st. LENGTH\_SHORT). show();
       return;
       SmsManager smsManager = SmsManager.getDefault();
       smsManager.sendTextMessage(phoneNumber, null, message, null, null);
      Toast.makeText(this, "SMS sent.", Toast.LENGTH LONG).show();
    } catch (Exception e) {
       Toast.makeText(this, "Failed to send SMS.", Toast.LENGTH_LONG).show();
       e.printStackTrace();
  }
Activity main.xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  android:layout width="match parent"
  android:layout height="match parent"
  android:orientation="vertical"
  android:padding="16dp">
  <!-- TextView for instructions -->
  <TextView
    android:layout width="match parent"
    android:layout height="wrap content"
    android:text="Enter the phone number of recipient"
    android:textSize="18sp"
    android:layout marginBottom="16dp"/>
  <!-- EditText for phone number -->
```

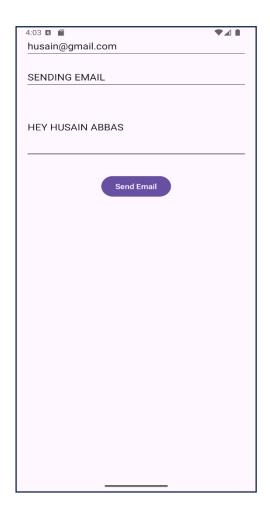
```
<EditText
    android:id="@+id/number"
    android:layout width="match parent"
    android:layout height="wrap content"
    android:hint="Enter Receiver's Phone Number"
    android:inputType="phone"
    android:layout marginBottom="16dp" />
  <!-- EditText for message content -->
  <EditText
    android:id="@+id/content"
    android:layout width="match parent"
    android:layout height="wrap content"
    android:hint="Enter Message"
    android:inputType="textMultiLine"
    android:minHeight="100dp"
    android:layout marginBottom="16dp"/>
  <!-- Button to send SMS -->
  <Button
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="Send SMS"
    android:onClick="onMessage"
    android:layout gravity="center horizontal"/>
</LinearLayout>
```

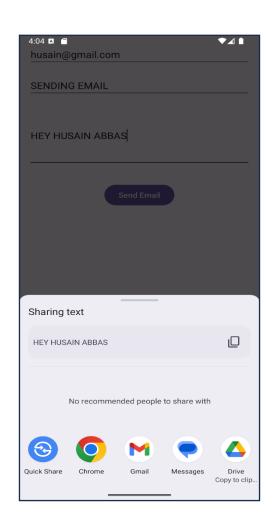
Enter the phone number of recipient 123456789 Hey <u>HUSAIN</u> ABBAS SEND SMS SMS sent. :::::: **DATE:**

DEVELOP AN ANDROID APPLICATION THAT USES TO SEND EMAIL

```
package com.example.sendmail;
import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.util.Log;
import android.view.View;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity extends AppCompatActivity {
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
  }
  public void sendEmail(View v) {
    Log.i("Send email", "");
    String[] TO = {"recipient@example.com"}; // Replace with the recipient's email
    String[] CC = {"cc@example.com"}; // Replace with CC email (optional)
    Intent emailIntent = new Intent(Intent.ACTION SEND);
    emailIntent.setData(Uri.parse("mailto:"));
    emailIntent.setType("text/plain");
    emailIntent.putExtra(Intent.EXTRA EMAIL, TO);
    emailIntent.putExtra(Intent.EXTRA CC, CC);
    emailIntent.putExtra(Intent.EXTRA SUBJECT, "Type Your Subject Here");
    emailIntent.putExtra(Intent.EXTRA TEXT, "You can write your email message here");
    try {
       startActivity(Intent.createChooser(emailIntent, "Choose an Email client"));
       Log.i("Finished sending email", "");
```

```
} catch (android.content.ActivityNotFoundException ex) {
       Toast.makeText(this, "There is no email client installed.", Toast.LENGTH_LONG).show();
  }
Activity main.xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  android:orientation="vertical"
  android:padding="16dp"
  android:gravity="center">
  <!-- Button to send email -->
  <Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Send Email"
    android:onClick="sendEmail"
    android:layout gravity="center horizontal"/>
</LinearLayout>
```





DATE:

DEVELOP AN ANDROID APPLICATION FOR MOBILE CALL

AndroidManifest.xml

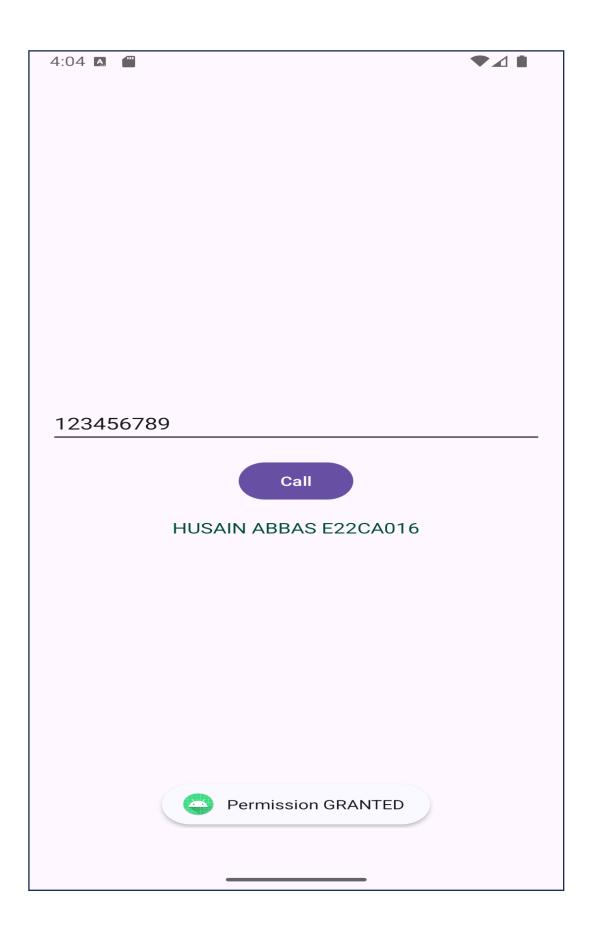
```
<manifest xmlns:android="http://schemas.android.com/apk/res/android"</pre>
  package="com.example.call"> <uses-permission
android:name="android.permission.CALL PHONE" />
  <application
    android:allowBackup="true"
    android:icon="@mipmap/ic launcher"
    android:label="@string/app name"
    android:roundIcon="@mipmap/ic launcher round"
    android:supportsRtl="true"
    android:theme="@style/Theme.Call"> <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>
MainActivity.java
package com.example.call;
import android.content.Intent;
import android.content.pm.PackageManager;
import android.net.Uri;
import android.os.Bundle;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;
```

```
import androidx.core.app.ActivityCompat;
public class MainActivity extends AppCompatActivity {
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
    EditText txtPhone = findViewById(R.id.mblTxt);
    Button btn = findViewById(R.id.btnCall);
    btn.setOnClickListener(v -> {
      String phoneNumber = txtPhone.getText().toString();
      if (phoneNumber.isEmpty()) {
         Toast.makeText(this, "Enter a phone number", Toast.LENGTH SHORT).show();
        return;
       }
      if (ActivityCompat.checkSelfPermission(this, Manifest.permission.CALL PHONE) !=
PackageManager.PERMISSION GRANTED) {
         ActivityCompat.requestPermissions(this, new
String[]{Manifest.permission.CALL PHONE},
         return;
       }
      startActivity(new Intent(Intent.ACTION CALL, Uri.parse("tel:" + phoneNumber)));
    });
  }
  @Override
  public void onRequestPermissionsResult(int requestCode, String[] permissions, int[] grantResults)
    super.onRequestPermissionsResult(requestCode, permissions, grantResults);
    if (requestCode == 101 && grantResults.length > 0 && grantResults[0] ==
PackageManager.PERMISSION GRANTED) {
      ((Button) findViewById(R.id.btnCall)).performClick();
    } else {
      Toast.makeText(this, "Permission denied", Toast.LENGTH SHORT).show();
  }
```

```
}
```

Activity main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  android:orientation="vertical"
  android:padding="16dp"
  android:gravity="center">
  <EditText
    android:id="@+id/mblTxt"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Enter Phone Number"
    android:inputType="phone"
    android:layout marginBottom="16dp"/>
  <Button
    android:id="@+id/btnCall"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Call" />
</LinearLayout>
```



DATE:

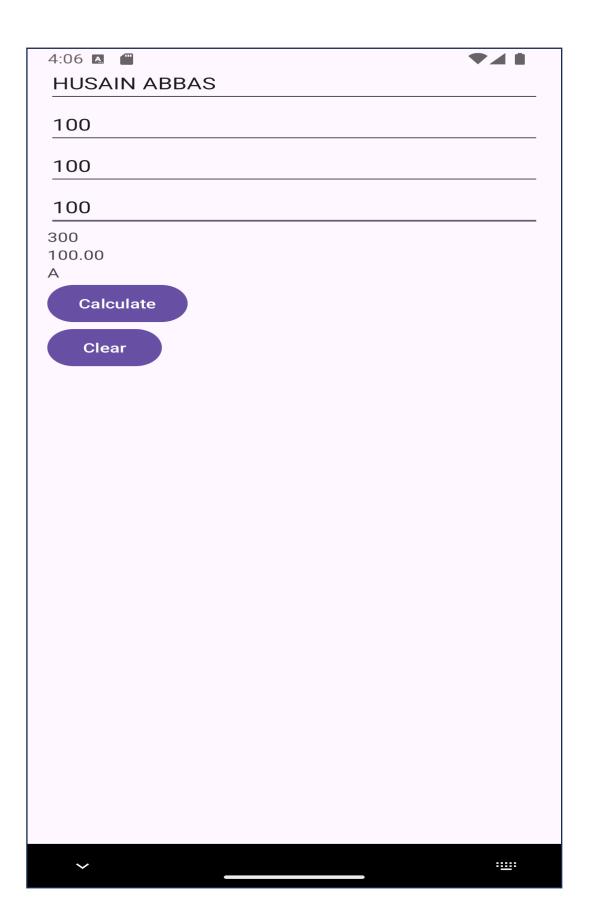
DEVELOP AN ANDROID APPLICATION FOR STUDENT MARKSHEET PROCESSING

```
package com.example.studentmarkprocessing;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import androidx.appcompat.app.AppCompatActivity;
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
    ed1 = findViewById(R.id.stname);
    ed2 = findViewById(R.id.mark1);
    ed3 = findViewById(R.id.mark2);
    ed4 = findViewById(R.id.mark3);
    ed5 = findViewById(R.id.total); // Initialize TextViews
  public void stmarks() {
    int m1, m2, m3, tot;
    double avg;
    String grade;
       avg = (double) tot / 3;
       ed6.setTet(String.format("%.2f", avg));
       if (avg > 75)
         grade = "A";
       } else if (avg > 65) {
         grade = "B";
       } else if (avg > 55) {
         grade = "C";
       } else if (avg > 40) {
```

```
grade = "S";
       } else {
         grade = "Fail";
       ed7.setText(grade);
    } catch (NumberFormatException e) {
       ed5.setText("Invalid Input");
       ed6.setText("Invalid Input");
       ed7.setText("Invalid Input");
  public void clear() {
    ed1.setText("");
    ed2.setText("");
    ed3.setText("");
    ed4.setText("");
    ed5.setText(""); // Clear TextViews
Activity main.xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  android:layout width="match parent"
  android:layout_height="match_parent"
  android:orientation="vertical"
  android:padding="16dp">
  <EditTex
    android:id="@+id/stname"
    android:layout width="match parent"
    android:layout height="wrap content"
    android:hint="Student Name"
    android:inputType="text" /
  <EditText
    android:id="@+id/mark1"
    android:layout width="match parent"
    android:layout height="wrap content"
```

```
android:hint="Mark 1"
  android:inputType="number" />
<EditText
  android:id="@+id/mark2"
  android:layout width="match parent"
  android:layout height="wrap content"
  android:hint="Mark 2"
  android:inputType="number" />
<EditText
  android:id="@+id/mark3"
  android:layout width="match parent"
  android:layout height="wrap content"
  android:hint="Mark 3"
  android:inputType="number" />
<TextView android:id="@+id/total"
  android:layout width="match parent"
  android:layout height="wrap content"
  android:hint="Total" />
<Button
  android:id="@+id/btn1"
  android:layout width="wrap content"
  android:layout height="wrap content"
  android:text="Calculate" />
<Button
  android:id="@+id/btn2"
  android:layout_width="wrap_content"
  android:layout height="wrap content"
  android:text="Clear" />
```

</LinearLayout>

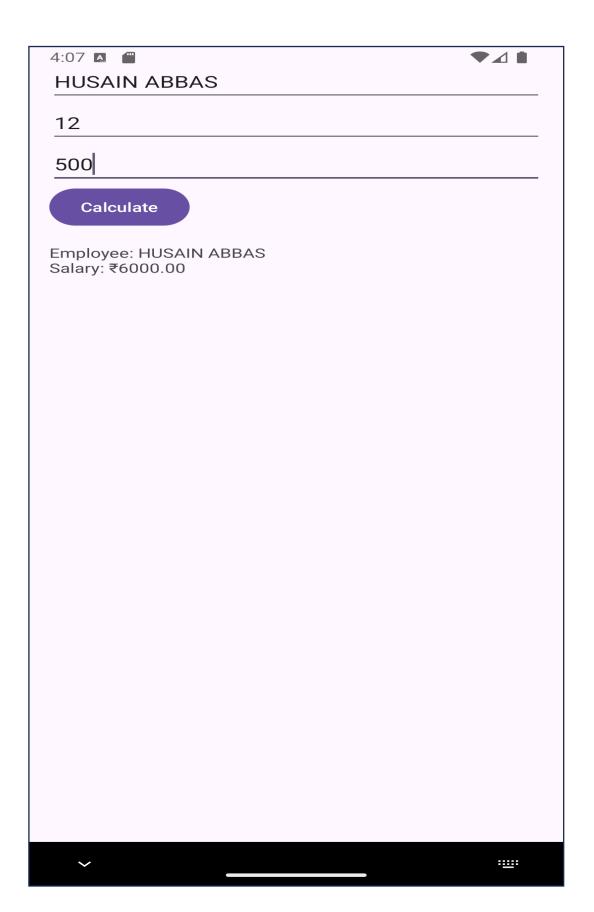


DATE:

DEVELOP AN ANDROID APPLICATION FOR PAYROLL PROCESSING

```
package com.example.payrollapp;
import android.os.Bundle;
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 {
  EditText etName, etHours, etRate;
  Button btnCalc;
  TextView tvResult;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
    etName = findViewById(R.id.etName); \\
    tvResult = findViewById(R.id.tvResult);
    btnCalc.setOnClickListener(v -> calculate());
  }
  private void calculate() {
    String name = etName.getText().toString().trim();
    String hoursStr = etHours.getText().toString().trim();
    String rateStr = etRate.getText().toString().trim();
    if (name.isEmpty() || hoursStr.isEmpty() || rateStr.isEmpty()) {
       Toast.makeText(this, "Enter all details", Toast.LENGTH SHORT).show();
       return;
       double salary = hours * rate;
```

```
Toast.makeText(this, "Invalid input", Toast.LENGTH_SHORT).show();
  }
}
Activity main.xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  android:layout height="match parent"
  android:orientation="vertical"
  android:padding="16dp">
  <EditText
    android:id="@+id/etName"
    android:layout_height="wrap_content"
    android:hint="Name"
    android:inputType="text" />
  <EditText
    android:id="@+id/etRate"
    android:layout height="wrap content"
    android:hint="Rate"
    android:inputType="numberDecimal" />
  <Button
    android:id="@+id/btnCalc"
      android:layout height="wrap content"
    android:text="Calculate" />
  <TextView
    android:id="@+id/tvResult"
    android:layout width="match parent"
    android:layout_height="wrap content"
    android:layout marginTop="16dp" />
</LinearLayout>
```



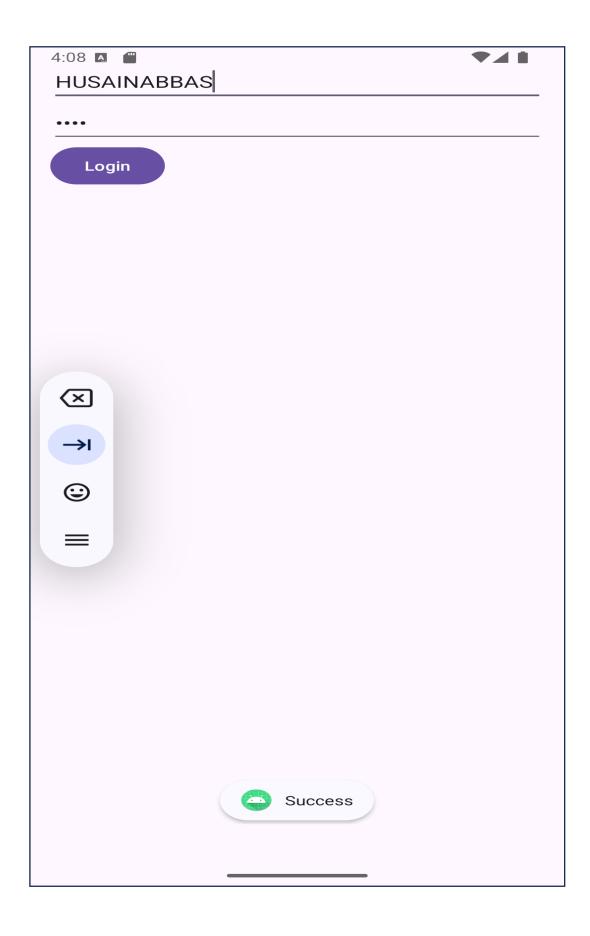
DATE:

DEVELOP AN ANDROID APPLICATION FOR LOGIN PAGE

```
package com.example.login;
import android.os.Bundle;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity extends AppCompatActivity {
  EditText etUsername, etPassword;
  Button btnLogin;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
    etUsername = findViewById(R.id.etUsername); // Correct IDs
    etPassword = findViewById(R.id.etPassword);
    btnLogin = findViewById(R.id.btnLogin);
    btnLogin.setOnClickListener(v -> { // Lambda expression
       String username = etUsername.getText().toString();
       String password = etPassword.getText().toString();
       if (username.equals("admin") && password.equals("1234")) {
         Toast.makeText(this, "Success", Toast.LENGTH SHORT).show(); // Short duration
       } else {
         Toast.makeText(this, "Fail", Toast.LENGTH SHORT).show();
         etUsername.setText(""); // Clear fields
         etPassword.setText("");
    });
  }
```

Activity main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  android:orientation="vertical"
  android:padding="16dp">
  <EditText
    android:id="@+id/etUsername"
    android:layout width="match parent"
    android:layout_height="wrap_content"
    android:hint="Username"
    android:inputType="text" />
  <EditText
    android:id="@+id/etPassword"
    android:layout width="match parent"
    android:layout height="wrap content"
    android:hint="Password"
    android:inputType="textPassword" />
  <Button
    android:id="@+id/btnLogin"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:text="Login" />
</LinearLayout>
```



DATE:

DEVELOP AN ANDROID APPLICATION FOR GOOGLE MAP LOCATOR

AndroidManifest.xml

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"</pre>
  package="com.example.gmap1"> <uses-permission
android:name="android.permission.INTERNET" />
  <application
    android:allowBackup="true"
    android:icon="@mipmap/ic launcher"
    android:label="@string/app name"
    android:roundIcon="@mipmap/ic launcher round"
    android:supportsRtl="true"
    android:theme="@style/Theme.Gmap1"> <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>
MainActivity.java
package com.example.gmap1;
import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.widget.Button;
import androidx.appcompat.app.AppCompatActivity;
```

```
public class MainActivity extends AppCompatActivity {
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
       Uri gmmIntentUri = Uri.parse("geo:0,0?q=your+search+term"); // Or specific coordinates
       Intent mapIntent = new Intent(Intent.ACTION VIEW, gmmIntentUri);
       mapIntent.setPackage("com.google.android.apps.maps"); // Explicitly set Google Maps
package
      if (mapIntent.resolveActivity(getPackageManager()) != null) { // Check if Maps is installed
         startActivity(mapIntent);
       } else {
         String mapUrl = "https://www.google.com/maps/search/your+search+term"; // Or use geo
URI
         Intent browserIntent = new Intent(Intent.ACTION_VIEW, Uri.parse(mapUrl));
         startActivity(browserIntent);
       }
    });
  }
Activity main.xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  android:layout width="match parent"
  android:layout height="match parent"
  android:gravity="center"> <Button
    android:id="@+id/click"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:text="Open Maps" />
</LinearLayout>
```

