

Exp No.2

Rishab Mandal

Batch: C23

Code:

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"
    tools:context=".MainActivity">

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerHorizontal="true"
        android:text="C23\nRishab Mandal\nRoll no: 2103110"
        android:textColor="@android:color/black"
        android:textSize="20sp"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent" />

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Name: " />

    <EditText
        android:id="@+id/editTextName"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Enter your name" />

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Email: " />

    <EditText
        android:id="@+id/editTextEmail"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:inputType="textEmailAddress"
        android:hint="Enter your email" />

    <RadioGroup
        android:id="@+id/radioGroupGender"
        android:layout_width="match_parent"
```

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        android:layout_height="wrap_content"
        android:orientation="horizontal">

        <RadioButton
            android:id="@+id/radioButtonMale"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Male"/>

        <RadioButton
            android:id="@+id/radioButtonFemale"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Female"/>

    </RadioGroup>

    <CheckBox
        android:id="@+id/checkboxAgree"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="I agree to the terms and conditions"/>

    <Button
        android:id="@+id/buttonSubmit"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Submit"/>

</LinearLayout>

```

MainActivity.java

```

package com.example.a3dfigures;
//package com.example.exp2new38;

import androidx.appcompat.app.AppCompatActivity;

import android.app.Activity;
import android.graphics.Bitmap;
import android.graphics.Canvas;
import android.graphics.Color;
import android.graphics.Paint;
import android.graphics.RectF;
import android.graphics.drawable.BitmapDrawable;
import android.widget.ImageView;

import android.os.Bundle;

public class MainActivity extends AppCompatActivity {
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        //Creating a Bitmap
    }
}

```

```

Bitmap bg = Bitmap.createBitmap(720, 1280, Bitmap.Config.RGB_565);

//Setting the Bitmap as background for the ImageView
ImageView i = (ImageView) findViewById(R.id.imageView);
i.setBackgroundDrawable(new BitmapDrawable(bg));

//Creating the Canvas Object
Canvas canvas = new Canvas(bg);

//Creating the Paint Object and set its color & TextSize
Paint paintBlack = new Paint();
paintBlack.setColor(Color.YELLOW);
paintBlack.setTextSize(80);

Paint paintBlue = new Paint();
paintBlue.setColor(Color.WHITE);
paintBlue.setTextSize(100);

//To draw a Cube
canvas.drawText("Cube", 220, 150, paintBlack);
// canvas.drawRect(400, 200, 500, 300, paint);
// canvas.drawRect(500, 200, 600, 300, paint);
canvas.drawLine(200, 200, 500, 200, paintBlue);
canvas.drawLine(200, 500, 500, 500, paintBlue);
canvas.drawLine(500, 200, 500, 500, paintBlue);
canvas.drawLine(200, 200, 200, 500, paintBlue);

canvas.drawLine(300, 300, 600, 300, paintBlue);
canvas.drawLine(300, 600, 600, 600, paintBlue);
canvas.drawLine(600, 300, 600, 600, paintBlue);
canvas.drawLine(300, 300, 300, 600, paintBlue);

canvas.drawLine(200, 200, 300, 300, paintBlue);
canvas.drawLine(500, 200, 600, 300, paintBlue);
canvas.drawLine(200, 500, 300, 600, paintBlue);
canvas.drawLine(500, 500, 600, 600, paintBlue);

canvas.drawText("Cone", 100, 800, paintBlack);
canvas.drawLine(200, 900, 100, 1100, paintBlue);
canvas.drawLine(200, 900, 300, 1100, paintBlue);

//canvas.drawArc(180, 180, 180, 540, paintBlue);

RectF rectF = new RectF(100, 1000, 300, 1200);
canvas.drawArc(rectF, 0, 180, true, paintBlue);

canvas.drawText("Prism", 400, 800, paintBlack);

float[] points1 = {450, 950, 400, 1150, 450, 950, 500, 1150, 400,
1150, 500, 1150};
canvas.drawLines(points1, paintBlue);

float[] points2 = {650, 900, 600, 1100, 650, 900, 700, 1100, 600,
1100, 700, 1100};
canvas.drawLines(points2, paintBlue);

float[] points3 = {450, 950, 650, 900, 500, 1150, 700, 1100, 400,

```

```

1150, 600, 1100,});
    canvas.drawLines(points3, paintBlue);

    }
}

```

Output:

