

**Ex. No. : 03**

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## **Graphical Primitives**

### **Aim**

Develop an android application to draw the circle, ellipse, rectangle and some text using Android Graphical primitives..

### ***Procedure:***

**Step 1 :** File -> NewProject

Provide the application name and Click “Next”

**Step 2 :** Select the target android devices

Select the minimum SDK to run the application. Click “Next”.

**Step 3 :** Choose the activity for the application (By default choose “Blank Activity”).

Click “Next”.

**Step 4 :** Enter activity name and click “Finish”.

**Step 5 :** Edit the program.

**Step 6 :** Run the application, 2-ways to run the application.

1. Running through emulator
2. Running through mobile device

### ***MyDrawingView.kt***

```
package com.example.exp3

import android.content.Context
import android.graphics.Canvas
import android.graphics.Color
import android.graphics.Paint
import android.graphics.RectF
import android.view.View

class MyDrawingView(context: Context) : View(context) {

    private val paint = Paint()

    override fun onDraw(canvas: Canvas) {
        super.onDraw(canvas)

        // Set up the paint
        paint.color = Color.BLUE
        paint.strokeWidth = 8f
        paint.style = Paint.Style.FILL

        // Draw a Circle
        canvas.drawCircle(300f, 300f, 100f, paint)

        // Draw a Rectangle
        paint.color = Color.RED
        canvas.drawRect(100f, 500f, 500f, 700f, paint)

        // Draw an Ellipse (Oval inside a rectangle)
        paint.color = Color.GREEN
        val oval = RectF(100f, 750f, 500f, 950f)
        canvas.drawOval(oval, paint)

        // Draw some Text
        paint.color = Color.BLACK
        paint.textSize = 60f
        canvas.drawText("Hello Canvas!", 100f, 1100f, paint)
    }
}
```

### ***MainActivity.kt***

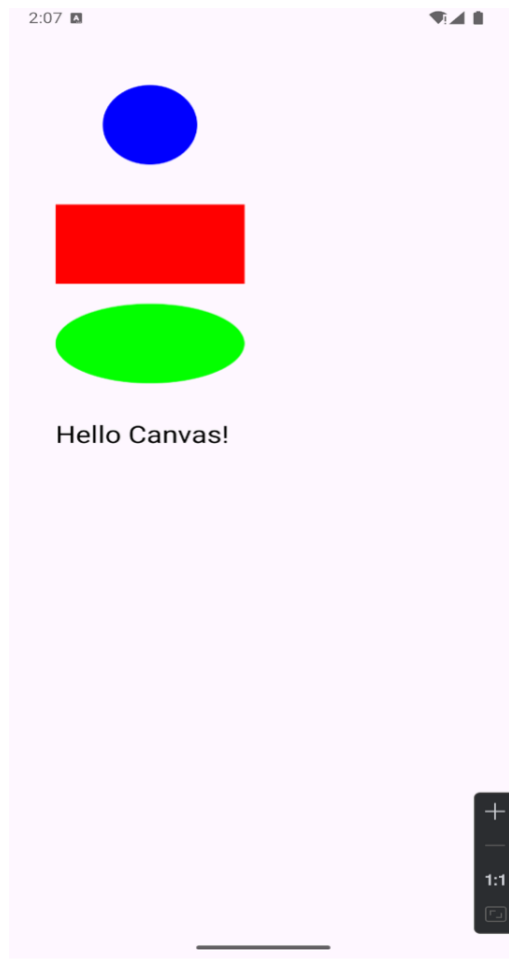
```
package com.example.exp3

import android.os.Bundle
import androidx.appcompat.app.AppCompatActivity

class MainActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)

        val drawingView = MyDrawingView(this)
        setContentView(drawingView)
    }
}
```

***Output:***



***Result: Experiment is successfully executed***

