

ASSIGNMENT – 2

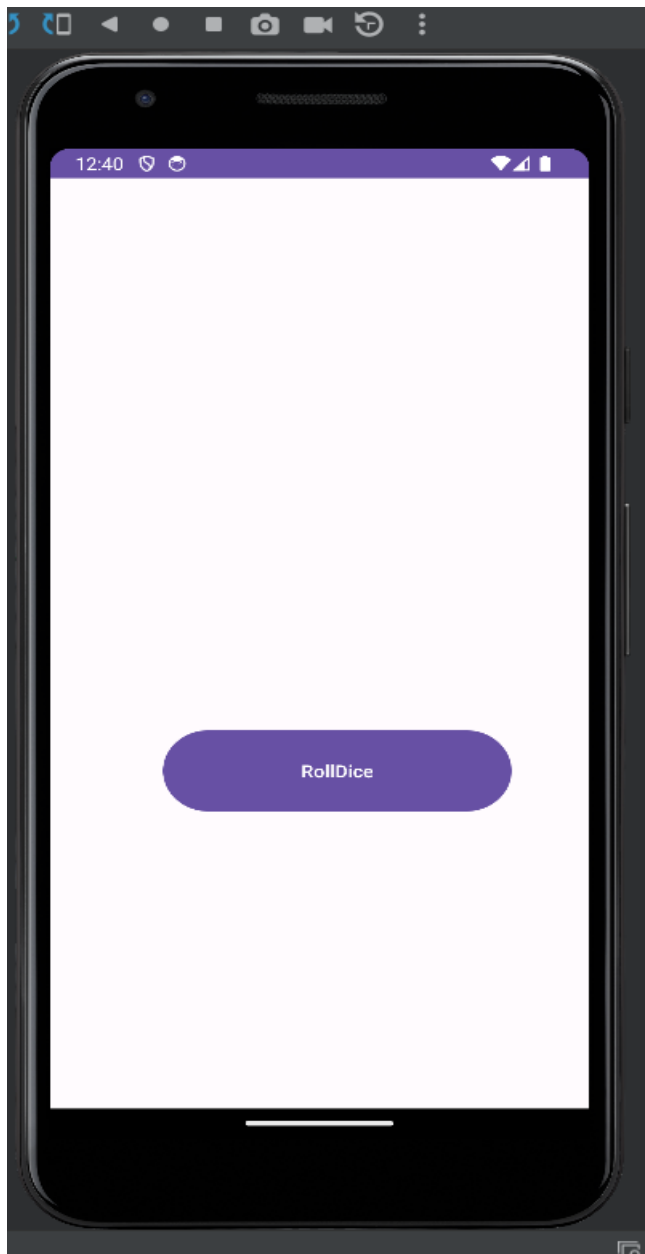
Name : RAMALA SIVA SAINADH REDDY

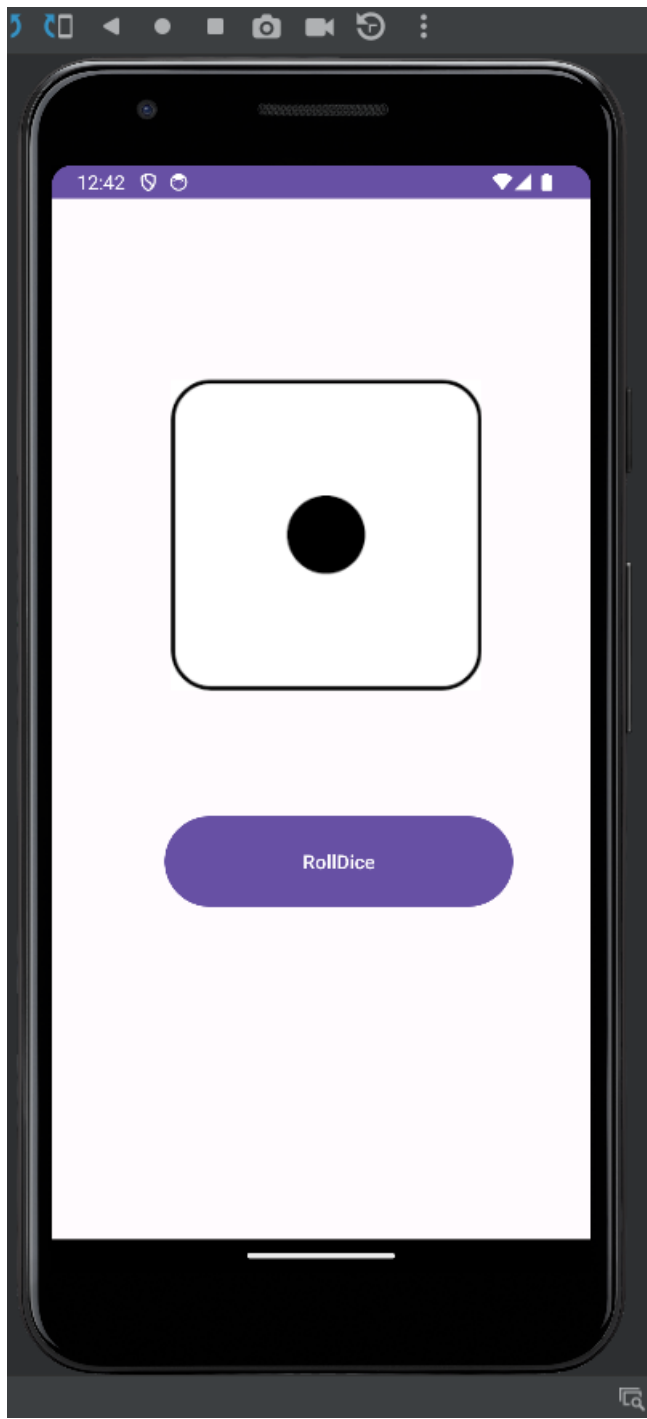
DICE PROGRAM :

Drive Link :

<https://drive.google.com/file/d/12au2nS7JiFQ0KzV2eUv5LWArA-Dle2Ws/view?usp=sharing>

OUTPUT :







CODE :

```
package com.example.rolldiceprogram
```

```
import android.os.Bundle
```

```
import android.widget.Button
```

```
import android.widget.ImageView
```

```
import androidx.appcompat.app.AppCompatActivity
import kotlin.random.Random
class MainActivity : AppCompatActivity() {
    private lateinit var diceImageView: ImageView
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)
        diceImageView = findViewById(R.id.imageView)
        val rollButton: Button = findViewById(R.id.rollButton)
        rollButton.setOnClickListener {
            rollDice()
        }
    }
    private fun rollDice() {
        // Define an array of dice image resource IDs
        val diceImages = arrayOf(
            R.drawable.d1,
            R.drawable.d2,
            R.drawable.d3,
            R.drawable.d4,
            R.drawable.d5,
            R.drawable.d6
        )
        // Generate a random index to select a dice image
        val randomIndex = Random.nextInt(diceImages.size)
        // Set the randomly selected dice image
        diceImageView.setImageResource(diceImages[randomIndex])
    }
}
```

XML CODE :

```
<?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">

    <Button
        android:id="@+id/rollButton"
        android:layout_width="254dp"
        android:layout_height="74dp"
        android:text="RollDice"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.592"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.652" />

    <ImageView
        android:id="@+id/imageView"
        android:layout_width="257dp"
        android:layout_height="227dp"
        android:layout_marginTop="132dp"
        android:layout_marginEnd="64dp"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>
```