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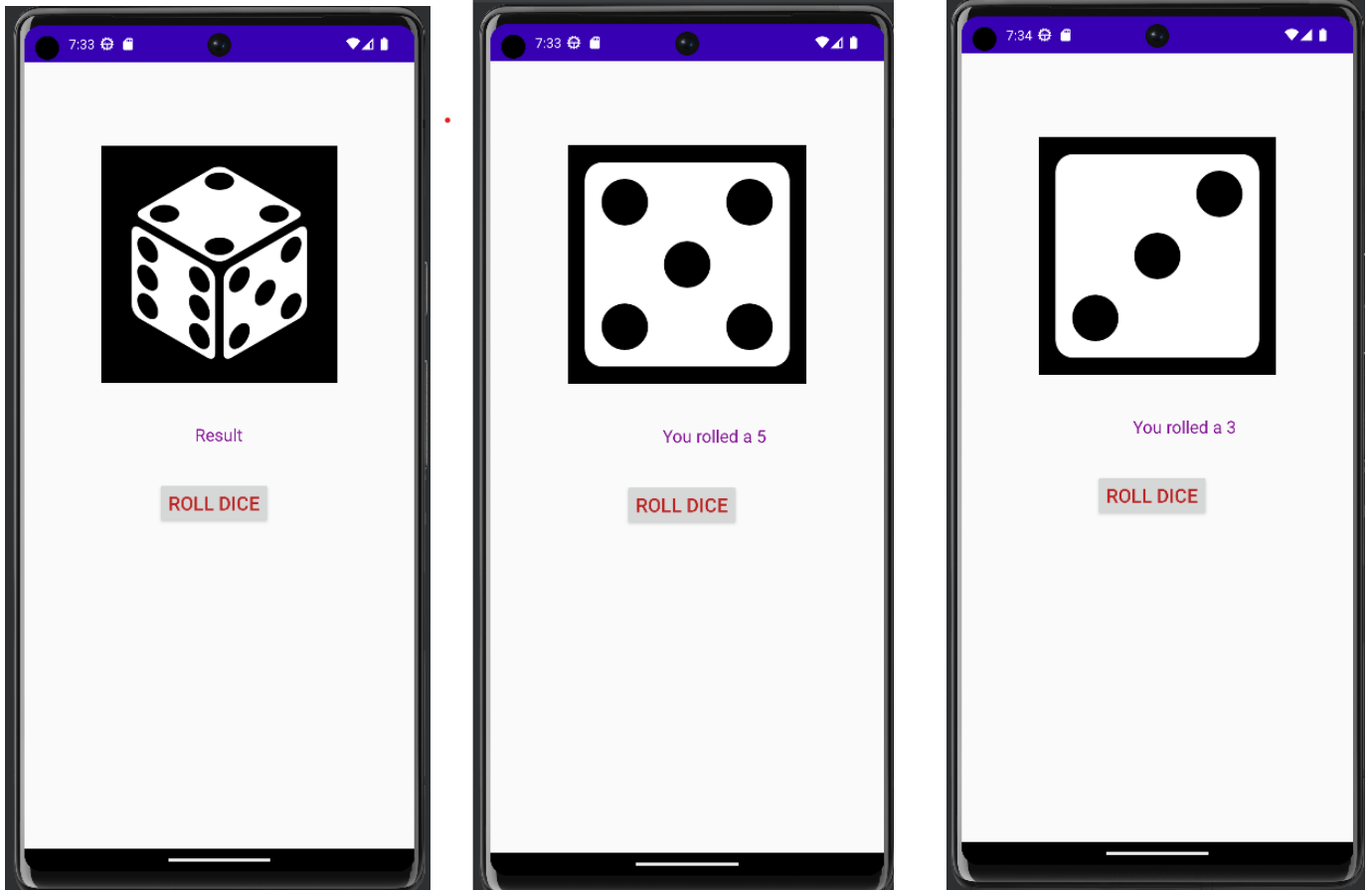
Course: Android App Development using Kotlin

Registration number:21BCE8927

Assignment 2- Dice Program

Google drive link:

Output:



MainActivity.kt code

```
package com.example.diceprogram

import android.os.Bundle
import android.widget.Button
import android.widget.ImageView
import android.widget.TextView
import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent
import androidx.compose.foundation.layout.fillMaxSize
import androidx.compose.material.MaterialTheme
import androidx.compose.material.Surface
import androidx.compose.material.Text
import androidx.compose.runtime.Composable
import androidx.compose.ui.Modifier
import androidx.compose.ui.tooling.preview.Preview
import com.example.diceprogram.ui.theme.DiceprogramTheme
import java.util.*

class MainActivity : ComponentActivity() {
```

```

private lateinit var tv: TextView
private lateinit var bt: Button
private lateinit var img: ImageView

override fun onCreate(savedInstanceState: Bundle?) {
    super.onCreate(savedInstanceState)
    setContentView(R.layout.activity_main)

    tv=findViewById(R.id.tv)
    bt=findViewById(R.id.bt)
    img=findViewById(R.id.img)

    bt.setOnClickListener {
        rollDice()
    }
}

private fun rollDice() {
    val random = Random()
    val randomNumber = random.nextInt(6) + 1
    val resultText= "You rolled a $randomNumber"
    tv.text = resultText

    when (randomNumber) {
        1 -> img.setImageResource(R.drawable.dice1)
        2 -> img.setImageResource(R.drawable.dice2)
        3 -> img.setImageResource(R.drawable.dice3)
        4 -> img.setImageResource(R.drawable.dice4)
        5 -> img.setImageResource(R.drawable.dice5)
        6 -> img.setImageResource(R.drawable.dice6)
    }
}
}

```

activity_main.xml code

```

<?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"
    tools:ignore="ExtraText">

    <TextView
        android:id="@+id/tv"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="16dp"
        android:baselineAligned="false"
        android:text="Result"
        android:textColor="#851498"
        android:textSize="18sp"
        android:translationX="180dp"
        android:translationY="380dp" />

    <Button
        android:id="@+id/bt"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:baselineAligned="false"
        android:text="Roll Dice"
        android:textColor="#BC2828"
        android:textSize="20sp"

```

```
        android:translationX="140dp"
        android:translationY="400dp" />

    <ImageView
        android:id="@+id/img"
        android:layout_width="305dp"
        android:layout_height="249dp"
        android:layout_gravity="center"
        android:src="@drawable/dice" />

</LinearLayout>
```