**21BCT0313**

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**CSE IOT**

**ASSIGNMENT -2**

Below is the code inside my kotlin and xml file.

The screenshots are also attached.

**Kotlin File**

package com.example.myapplication  
  
import android.os.Bundle  
import android.widget.Button  
import android.widget.ImageView  
import android.widget.TextView  
import androidx.appcompat.app.AppCompatActivity  
  
import java.util.\*  
  
class MainActivity : AppCompatActivity() {  
  
 private lateinit var resultTextView: TextView  
 private lateinit var rollButton: Button  
 private lateinit var imageView: ImageView  
  
  
 override fun onCreate(savedInstanceState: Bundle?) {  
 super.onCreate(savedInstanceState)  
 setContentView(R.layout.*activity\_main*)  
 resultTextView = findViewById(R.id.*resultTextView*)  
 imageView = findViewById(R.id.*imageView*)  
 rollButton = findViewById(R.id.*rollButton*)  
  
  
 rollButton.setOnClickListener**{** rollDice()  
 **}** }  
  
 private fun rollDice()  
 {  
 val random = Random()  
 val randomNumber = random.nextInt(6)+1  
 val resultText = "You rolled a $randomNumber"  
  
 resultTextView.*text* = resultText  
  
 val drawableResource = when (randomNumber) {  
 1 -> R.drawable.*dice\_one* 2 -> R.drawable.*dice\_two* 3 -> R.drawable.*dice\_three* 4 -> R.drawable.*dice\_four* 5 -> R.drawable.*dice\_five* else -> R.drawable.*dice\_six* }  
 imageView.setImageResource(drawableResource)  
  
 }  
}

**Xml File**

<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout  
 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"  
 android:gravity ="center"  
 android:orientation="vertical"  
 android:padding="16dp"  
 tools:context=".MainActivity"  
 >  
  
  
 <ImageView  
 android:id="@+id/imageView"  
 android:layout\_width="151dp"  
 android:layout\_height="161dp"  
 app:srcCompat="@drawable/logo" />  
  
 <TextView  
 android:id="@+id/resultTextView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="38dp"  
 android:text="Result is shown here"  
 android:textSize="20sp" />  
  
 <Button  
 android:id="@+id/rollButton"  
 android:layout\_width="180dp"  
 android:layout\_height="wrap\_content"  
 android:onClick="loginButtonClicked"  
 android:text="Roll Dice"  
 android:textSize="25sp" />  
  
  
</LinearLayout>

**Output-**



