ASSIGNMENT-2

CREATING A ROLLING DICE APPLICATION IN ANDROID STUDIO USING KOTLIN.

NAME - E.HAREETH BALAJIE

REG NO - 21BCE3116

CAMPUS - VIT VELLORE

MainActivity.kt

```
package com.example.diceroll

import …

class MainActivity : AppCompatActivity() (

private var diceAnimation : AnimationDrawable? = null

private var setTime: CountDownTimer? = null

override fun onCreate(savedInstanceState: Bundle?) (

super.onCreate(savedInstanceState)

setContentView(R.layout.activity_main)

val buttonStart: Button = findViewById(R.id.button)

buttonStart.setOnClickListener / it View!

onPlay()

}

}


private fun onPlay() t

var randomTime = (1000  ≤ .. ≤ 3000).random().toLong()

setTime = object :CountDownTimer(randomTime, countDowninterval 1000)

{

override fun onTick(p0: Long) t

val imageView: ImageView = findViewById(R.id.imageview)

imageView.setBackgroundResource(R.drawable.animate_dice)

diceAnimation = imageView.background as AnimationDrawable

diceAnimation?.start()

}
```

```kotlin
override fun onFinish() {

diceAnimation?.stop(

Toast.makeText( context this@MainActivity, text "Dice Rolled" ,Toast.LENGTH_SHORT).show()

}

).start()

}

override fun onDestroy() (

super.onDestroy()

if (setTime!enull){

setTime?.cancel()

}

}
```

Animate_dice.xml

```xml
<?xml version="1.0" encoding="utf-8"?>

<animation-list xmlns:android="http://schemas.android.com/apk/rolldice.com

<item

android:drawable="@drawable/dice1"

android:duration="100/>

<item

android:drawable="@drawable/dice2"

android:duration="100"/>

<item

android:drawable="@drawable/dice3"

android:duration="100"/>

<item

android:drawable="(drawable/dice4"

android:duration="100"/>

<item

android:drawable=r@drawable/dices

android:duration="100"/>

<item
```

android:drawable-@drawable/dices

android:duration="100"/>

</animation-list>

Activity_main.xml

<?xml version="1.0" encoding="utf-8"?>

<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com

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-background-"C101E1"

tools:context=".MainActivity">

<ImageView

android:id="@+id/imageView"

android:layout_width="124dp"

android:layout_height="124dp"

android:background="(drawable/diceing"

app:layout_constraáintgotton_toBottomof="parent"

app:ayout.constraintEnd_toEndof="parent"

app:leyout_constraintstart_tostartor_"parent"

app:layout_constraintTop_toTopof="parent=

app:layout_constraintVertical_bias="0.319" />

<Button

android:id="@+id/button"

android:layout_width="315dp"

android:layout_height="wrap_content"

android:layout_marginTop="148dp"

android:backgroundTint="@color/black#

android:text="Roll"

android:textSize="22sp"

android:textstyle="bold"

app:layout_constraintEnd_toEnd0f="parent"

app:layout_constraintStart_tostartOf="parent"

app:layout_constraintTop_toBottomOf="@id/imageView"/>

</androidx.constraintlayout.widget.ConstraintLayout>

Screenshots

app:layout_constraintEnd_toEnd0f="parent"

app:layout_constraintStart_tostartOf="parent"