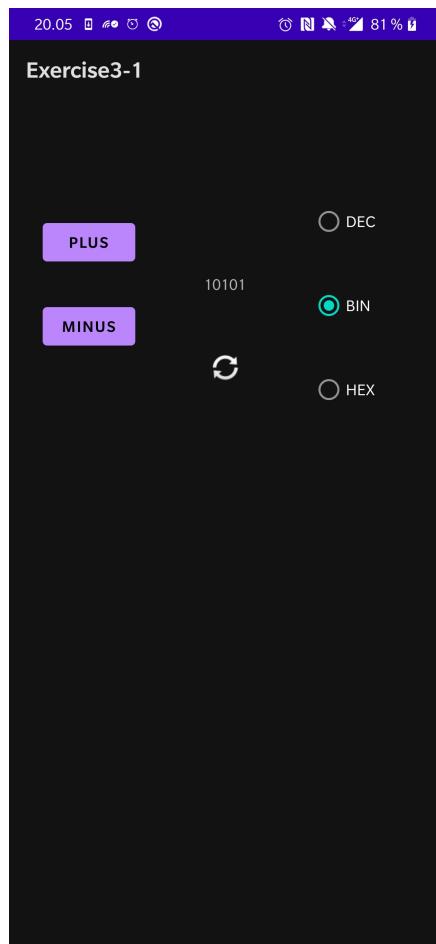


Android exercixe 3-1

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1 Screenshot



2 Code

Main class

```
package com.example.exercise3_1

import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle
import android.util.Log
import android.view.View
import android.widget.*

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

        //setting counter (with default values)
        val counter = Counter()

        //getting the startvalue from counter and setting it to variable
        var currentCount = counter.startvalue

        //string variable for how number is displayed
        var numberIs = "decimal"

        //clickevent for radiobuttons. Lame style but works
        findViewById<RadioButton>(R.id.radiodecimal).setOnClickListener {
            numberIs = "decimal"
            ShowValue(currentCount, numberIs)
        }
        findViewById<RadioButton>(R.id.radiobinary).setOnClickListener {
            numberIs = "binary"
            ShowValue(currentCount, numberIs)
        }
        findViewById<RadioButton>(R.id.radiohexadecimal).setOnClickListener {
            numberIs = "hexadecimal"
            ShowValue(currentCount, numberIs)
        }

        //displaying starting value
        val showCountTextView = findViewById<TextView>(R.id.mytextview)
        showCountTextView.text = currentCount.toString()

        //clickevent plus
        findViewById<Button>(R.id.plus_button).setOnClickListener {
```

```

        if (currentCount < counter.maxvalue) {
            currentCount = counter.sum(currentCount, counter.stepvalue)
            ShowValue(currentCount, numberIs)
        }
    }
    //clickevent substraction
    findViewById<Button>(R.id.minus_button).setOnClickListener {
        if (currentCount > counter.minvalue) {
            currentCount = counter.minus(currentCount, counter.stepvalue)
            ShowValue(currentCount, numberIs)
        }
    }
    //changed Button to ImageView
    findViewById<ImageView>(R.id.reset_button).setOnClickListener {
        currentCount = 0
        ShowValue(0, numberIs)
    }
}

//function for refreshing value called in clickevents
private fun ShowValue(myNum: Int, numberstyle: String) {
    val showCountTextView = findViewById<TextView>(R.id.mytextview)
    when(numberstyle) {
        "decimal" -> {
            showCountTextView.text = myNum.toString()
        }
        "hexadecimal" -> {
            val hexanum = Integer.toHexString(myNum)
            showCountTextView.text = hexanum
        }
        "binary" -> {
            val binarynum = Integer.toBinaryString(myNum)
            showCountTextView.text = binarynum
        }
    }
}
}

```

Counter class

```
package com.example.exercise3_1

//no changes
class Counter(var minvalue : Int, var maxvalue : Int, var startvalue : Int, var

    //default values if called without parameters
constructor() : this(-100, 100, 0, 1)

    //lambda functions for plus and minus
val sum: (x: Int, y: Int) -> Int = { x, y -> x + y }
val minus: (x: Int, y: Int) -> Int = { x, y, -> x - y }
}
```