Android Application Development [USCSP405]

Seat No.: 22SCS092

Practical No.: 02

Aim: Design Calculator Using Kotlin in Android Studio.

Source Code:

a. activity_main.xml.

Code:

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
 xmlns:app="http://schemas.android.com/apk/res-auto"
 xmlns:tools="http://schemas.android.com/tools"
 android:id="@+id/linearLayout"
 android:layout_width="match_parent"
 android:layout_height="match_parent"
 android:layout_margin="20dp"
 android:fitsSystemWindows="true"
 android:orientation="vertical"
 tools:context=".MainActivity">
 <EditText
   android:id="@+id/eta"
   android:layout_width="323dp"
   android:layout_height="wrap_content"
   android:layout_margin="20dp"
    android:text="Enter a" />
 <EditText
   android:id="@+id/etb"
   android:layout width="326dp"
   android:layout_height="wrap_content"
    android:layout_margin="20dp"
   android:text="Enter b" />
 <TextView
   android:id="@+id/rv"
   android:layout_width="match_parent"
   android:layout_height="wrap_content"
   android:layout_margin="20dp"
   android:text="Result" />
 <LinearLayout
   android:layout_width="match_parent"
   android:layout_height="match_parent"
   android:orientation="horizontal">
    <Button
     android:id="@+id/btnadd"
```

Android Application Development [USCSP405]

Seat No.: 22SCS092

```
android:layout_width="wrap_content"
     android:layout_height="wrap_content"
     android:text="+"/>
    <Button
     android:id="@+id/btnsub"
     android:layout_width="wrap_content"
     android:layout_height="wrap_content"
     android:text="-" />
    <Button
     android:id="@+id/btnmul"
     android:layout_width="wrap_content"
     android:layout_height="wrap_content"
     android:text="*"/>
    <Button
     android:id="@+id/btndiv"
     android:layout_width="wrap_content"
     android:layout_height="wrap_content"
     android:text="/"/>
 </LinearLayout>
</LinearLayout>
Source Code:
   b. MainActivity.kt.
Code:
package com.example.calculator
import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle
import android.view.View
import android.widget.Button
import android.widget.EditText
import android.widget.TextView
```

class MainActivity : AppCompatActivity(), View.OnClickListener {

lateinit var btnadd: Button lateinit var btnsub: Button lateinit var btnmul: Button lateinit var btndiv: Button lateinit var eta: EditText lateinit var etb: EditText lateinit var rv: TextView

```
Seat No.: 22SCS092
```

```
override fun onCreate(savedInstanceState: Bundle?) {
    super.onCreate(savedInstanceState)
    setContentView(R.layout.activity_main)
    btnadd=findViewById(R.id.btnadd)
    btnsub=findViewById(R.id.btnsub)
    btnmul=findViewById(R.id.btnmul)
    btndiv=findViewById(R.id.btndiv)
    eta=findViewById(R.id.eta)
    etb=findViewById(R.id.etb)
    rv=findViewById(R.id.rv)
    btnadd.setOnClickListener(this)
    btnsub.setOnClickListener(this)
    btnmul.setOnClickListener(this)
    btndiv.setOnClickListener(this)
  }
  override fun onClick(v: View?) {
    var a = eta.text.toString().toDouble()
    var b = etb.text.toString().toDouble()
    var result = 0.0
    when (v?.id) {
      R.id.btnadd -> {
        result = a + b
      }
      R.id.btnsub -> {
        result = a - b
      }
      R.id.btnmul -> {
        result = a * b
      }
      R.id.btndiv -> {
        result = a / b
      }
    rv.text="Result is $result"
 }
}
```

Output:

