ANDROID MANIFEST

ACTIVITY MAIN

```
<TableLavout
       android:layout width="match parent"
        android:layout height="wrap content"
                android:layout width="match parent"
                android:layout height="wrap content" android:id="@+id/button7"
                android:onClick="numberAction"/>
                android:layout width="match parent"
                android:text="9"
                android:layout width="match parent"
                android:layout_height="wrap_content" android:id="@+id/button9"
                android:onClick="numberAction"/>
                android:text="/"
                android:onClick="operatorAction"/>
    </TableRow>
    <TableRow android:paddingBottom="10dp">
               android:text="4"
                android:layout width="match parent"
                android:layout height="wrap content" android:id="@+id/button4"
                android:layout width="match parent"
                android:layout height="wrap content" android:id="@+id/button6"
                android:text="x"
                android:layout width="match parent"
                android:layout height="wrap content" android:id="@+id/mul"
                android:onClick="operatorAction"/>
    </TableRow>
                android:text="3"
                android:layout width="match parent"
                android:layout height="wrap content" android:id="@+id/button3"
                android:onClick="numberAction"/>
                android:layout width="match parent"
                android:onClick="numberAction"/>
                android:layout width="match parent"
                android:layout height="wrap content" android:id="@+id/button1"
```

```
android:onClick="numberAction"/>
               android:text="-"
                android:layout width="match parent"
    </TableRow>
    <TableRow android:paddingBottom="10dp">
                android:text="."
                android:layout width="match parent"
                android:layout height="wrap content" android:id="@+id/dot"
                android:layout width="match parent"
                android:layout_width="match_parent"
                android:layout_height="wrap_content" android:id="@+id/equals"
               android:text="+"
               android:layout_width="match_parent"
                android:layout_height="wrap_content" android:id="@+id/add"
    </TableRow>
               android:text="Clear"
                android:layout_height="wrap content" android:id="@+id/clear"
   </TableRow>
</TableLayout>
```

MAIN ACTIVITY

```
import android.os.Bundle
import android.view.View
import android.widget.Button
import android.widget.TextView
import androidx.appcompat.app.AppCompatActivity

class MainActivity : AppCompatActivity() {
    private var addOperation = false
    private var addDecimal = true
    private lateinit var textViewInput: TextView
    private lateinit var textViewResult: TextView

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
```

```
setContentView(R.layout.activity main)
    textViewInput = findViewById(R.id.input)
    textViewResult = findViewById(R.id.output)
            textViewInput.append(view.text)
            addOperation = false
            textViewInput.append(view.text)
       addOperation = true
    if (view is Button && addOperation) {
        textViewInput.append(view.text)
       addOperation = false
   textViewInput.text = ""
   val digitsOperator = digitsOperator()
   val timesDivision=divCalculate(digitsOperator)
    if(timesDivision.isEmpty()) return ""
   val result=addSubtract(timesDivision)
   return result.toString()
private fun addSubtract(passedList: MutableList<Any>): Float {
    var result=passedList[0] as Float
    for(i in passedList.indices){
            val operator=passedList[i]
            val nextDigit=passedList[i+1] as Float
            if (operator=='+')
                result+=nextDigit
            if (operator=='-')
private fun divCalculate(passedList: MutableList<Any>): MutableList<Any> {
```

```
var list=passedList
    while (list.contains('x')||list.contains('/')){
        list=calcdiv(list)
private fun calcdiv(passedList: MutableList<Any>): MutableList<Any> {
    var restartIndex = passedList.size
    for (i in passedList.indices) {
        if (passedList[i] is Char && i != passedList.lastIndex && i <</pre>
            val operator = passedList[i]
            val prevDigit = passedList[i-1] as Float
            val nextDigit = passedList[i+1] as Float
            when (operator) {
                    newList.add(prevDigit * nextDigit)
                    restartIndex = i + 1
                    newList.add(prevDigit / nextDigit)
                    restartIndex = i + 1
                    newList.add(prevDigit)
                    newList.add(operator)
        if (i>restartIndex)
           newList.add(passedList[i])
    for(character in textViewInput.text){
            list.add(currentDigit.toFloat())
            list.add(character)
    if (currentDigit!="")
        list.add(currentDigit.toFloat())
    return list
```