package com.example.calculatestuff  
  
import android.os.Bundle  
import androidx.appcompat.app.AppCompatActivity  
import androidx.databinding.DataBindingUtil  
import com.example.calculatestuff.databinding.ActivityMainBinding  
  
class MainActivity : AppCompatActivity() {  
  
  
  
 lateinit var binding: ActivityMainBinding  
 override fun onCreate(savedInstanceState: Bundle?) {  
 super.onCreate(savedInstanceState)  
 binding=DataBindingUtil.setContentView(this,R.layout.*activity\_main*)  
 // setContentView(R.layout.activity\_main)  
 var result:Int=0  
 var num2:Int  
 var num3:Int  
 var operation:Char='a'  
 var state:Char='a'  
 var temp1:Int=0  
 var temp2:Int=0  
  
  
 var face:Char='a'  
  
  
  
 // Buttons for numbers 0--9  
 binding.one.setOnClickListener **{**// if (binding.t2.length() > 12)  
// binding.t2.setTextSize(38.0f)  
  
  
 binding.t2.*text*=binding.t2.*text*.toString()+"1"  
 **}** binding.two.setOnClickListener **{**// if (binding.t2.length() > 12)  
// binding.t2.setTextSize(38.0f)  
 binding.t2.*text*=binding.t2.*text*.toString()+"2"  
 **}** binding.three.setOnClickListener **{**// if (binding.t2.length() > 12)  
// binding.t2.setTextSize(38.0f)  
 binding.t2.*text*=binding.t2.*text*.toString()+"3"  
 **}** binding.button6.setOnClickListener **{**// if(binding.t2.length() > 12)  
// binding.t2.setTextSize(38.0f)  
 binding.t2.*text*=binding.t2.*text*.toString()+"4"  
 **}** binding.button7.setOnClickListener **{** binding.t2.*text*=binding.t2.*text*.toString()+"5"  
 **}** binding.button9.setOnClickListener **{** binding.t2.*text*=binding.t2.*text*.toString()+"6"  
 **}** binding.seven.setOnClickListener **{** binding.t2.*text*=binding.t2.*text*.toString()+"7"  
 **}** binding.eight.setOnClickListener **{** binding.t2.*text*=binding.t2.*text*.toString()+"8"  
 **}** binding.nine.setOnClickListener **{** binding.t2.*text*=binding.t2.*text*.toString()+"9"  
 **}** binding.zero.setOnClickListener **{** binding.t2.*text*=binding.t2.*text*.toString()+"0"  
 **}** binding.dot.setOnClickListener **{** binding.t2.*text*=binding.t2.*text*.toString()+"."  
 **}** // Buttons for operations = - \* / % -----------------------------  
 binding.plus.setOnClickListener **{** var dividend = binding.t2.*text*.toString().*toInt*()  
  
 if(binding.t1.length()<1) {  
 result = result + Integer.parseInt(binding.t2.*text*.toString())  
 temp1=result  
 temp2=temp1  
 }  
 else  
 {  
 if(state=='+')  
 {  
 result=result+Integer.parseInt(binding.t2.*text*.toString());  
 temp1=result  
 temp2=Integer.parseInt(binding.t2.*text*.toString())  
 face='+'  
 }  
 if(state=='-')  
 {  
 result=result-Integer.parseInt(binding.t2.*text*.toString());  
 temp1=result  
 temp2=Integer.parseInt(binding.t2.*text*.toString())  
 face='-'  
 }  
 if(state=='\*')  
 {  
 result=result\*Integer.parseInt(binding.t2.*text*.toString());  
 temp1=result  
 temp2=Integer.parseInt(binding.t2.*text*.toString())  
 face='\*'  
 }  
  
  
 // NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE  
 // <--------- YOU MUST ADD CONDITION FOR CATHING DIVIDE BY ZERO EXCEPTION ---------------------->  
  
  
 if(state=='/' && dividend!=0)  
 {  
 result=result/Integer.parseInt(binding.t2.*text*.toString());  
 temp1=result  
 temp2=Integer.parseInt(binding.t2.*text*.toString())  
 face='/'  
 }  
 if(state=='%' && dividend!=0)  
 {  
 result=result%Integer.parseInt(binding.t2.*text*.toString());  
 temp1=result  
 temp2=Integer.parseInt(binding.t2.*text*.toString())  
 face='%'  
 }  
  
  
  
 }  
 binding.t1.*text*=binding.t1.*text*.toString()+binding.t2.*text*.toString()+"+"  
 binding.t2.*text*=""  
 state='+'  
 operation='+'  
  
 **}** binding.button8.setOnClickListener **{** var dividend = binding.t2.*text*.toString().*toInt*()  
 operation='-'  
 if(binding.t1.length()<1) {  
 result = result + Integer.parseInt(binding.t2.*text*.toString())  
 temp1=result  
 temp2=temp1  
 }  
 else  
 {  
 if(state=='+')  
 {  
 result=result+Integer.parseInt(binding.t2.*text*.toString());  
 temp1=result  
 temp2=Integer.parseInt(binding.t2.*text*.toString())  
 face='+'  
 }  
 if(state=='-')  
 {  
 result=result-Integer.parseInt(binding.t2.*text*.toString());  
 temp1=result  
 temp2=Integer.parseInt(binding.t2.*text*.toString())  
 face='-'  
 }  
 if(state=='\*')  
 {  
 result=result\*Integer.parseInt(binding.t2.*text*.toString());  
 temp1=result  
 temp2=Integer.parseInt(binding.t2.*text*.toString())  
 face='\*'  
 }  
 if(state=='/' && dividend!=0)  
 {  
 result=result/Integer.parseInt(binding.t2.*text*.toString());  
 temp1=result  
 temp2=Integer.parseInt(binding.t2.*text*.toString())  
 face='/'  
 }  
 if(state=='%' && dividend!=0)  
 {  
 result=result%Integer.parseInt(binding.t2.*text*.toString());  
 temp1=result  
 temp2=Integer.parseInt(binding.t2.*text*.toString())  
 face='%'  
 }  
  
  
 // result=result-Integer.parseInt(binding.t2.text.toString())  
 }  
 binding.t1.*text*=binding.t1.*text*.toString()+binding.t2.*text*.toString()+"-"  
 binding.t2.*text*=""  
 state='-'  
 **}** binding.mul.setOnClickListener **{** var dividend = binding.t2.*text*.toString().*toInt*()  
 if(binding.t1.length()<1) {  
 result = result + Integer.parseInt(binding.t2.*text*.toString())  
 temp1=result  
 temp2=temp1  
 }  
 else  
 {  
 if(state=='+')  
 {  
  
  
 temp1=result  
 temp2=Integer.parseInt(binding.t2.*text*.toString())  
   
 // result must calculate later ok  
 result=result+Integer.parseInt(binding.t2.*text*.toString());  
 face='+'  
  
 }  
 if(state=='-')  
 { result=result-Integer.parseInt(binding.t2.*text*.toString());  
 temp1=result  
 temp2=Integer.parseInt(binding.t2.*text*.toString())  
  
 face='-'  
 }  
 if(state=='\*')  
 {  
  
  
  
 temp1=result  
 temp2=Integer.parseInt(binding.t2.*text*.toString())  
 result=result\*Integer.parseInt(binding.t2.*text*.toString());  
 face='\*'  
 }  
 if(state=='/' && dividend!=0)  
 {result=result/Integer.parseInt(binding.t2.*text*.toString());  
 temp1=result  
 temp2=Integer.parseInt(binding.t2.*text*.toString())  
  
  
 face='/'  
 }  
 if(state=='%' && dividend!=0)  
 {  
 result=result%Integer.parseInt(binding.t2.*text*.toString());  
 temp1=result  
 temp2=Integer.parseInt(binding.t2.*text*.toString())  
  
  
 face='%'  
 }  
  
  
 // result=result-Integer.parseInt(binding.t2.text.toString())  
 }  
 binding.t1.*text*=binding.t1.*text*.toString()+binding.t2.*text*.toString()+"\*"  
 binding.t2.*text*=""  
 state='\*'  
 operation='\*'  
  
 **}** binding.div.setOnClickListener **{** var dividend = binding.t2.*text*.toString().*toInt*()  
 operation='/'  
 if(binding.t1.length()<1) {  
 result = result + Integer.parseInt(binding.t2.*text*.toString())  
 temp1=result  
 temp2=temp1  
 }  
 else  
 {  
 if(state=='+')  
 {  
 temp1=result  
 temp2=Integer.parseInt(binding.t2.*text*.toString())  
 result=result+Integer.parseInt(binding.t2.*text*.toString());  
  
 face='+'  
 }  
 if(state=='-')  
 {  
 temp1=result  
 temp2=Integer.parseInt(binding.t2.*text*.toString())  
 result=result-Integer.parseInt(binding.t2.*text*.toString());  
  
 face='-'  
 }  
 if(state=='\*')  
 {  
 temp1=result  
 temp2=Integer.parseInt(binding.t2.*text*.toString())  
 result=result\*Integer.parseInt(binding.t2.*text*.toString());  
  
 face='\*'  
 }  
 if(state=='/' && dividend!=0)  
 {  
 temp1=result  
 temp2=Integer.parseInt(binding.t2.*text*.toString())  
 result=result/Integer.parseInt(binding.t2.*text*.toString());  
  
 face='/'  
 }  
 if(state=='%' && dividend!=0)  
 {  
 temp1=result  
 temp2=Integer.parseInt(binding.t2.*text*.toString())  
 result=result%Integer.parseInt(binding.t2.*text*.toString());  
  
 face='%'  
 }  
  
  
 // result=result-Integer.parseInt(binding.t2.text.toString())  
 }  
 binding.t1.*text*=binding.t1.*text*.toString()+binding.t2.*text*.toString()+"/"  
 binding.t2.*text*=""  
 state='/'  
 **}** binding.remainder.setOnClickListener **{** var dividend = binding.t2.*text*.toString().*toInt*()  
 operation='%'  
 if(binding.t1.length()<1) {  
 result = result + Integer.parseInt(binding.t2.*text*.toString())  
 }  
 else  
 {  
 if(state=='+')  
 {  
 result=result+Integer.parseInt(binding.t2.*text*.toString());  
 }  
 if(state=='-')  
 {  
 result=result-Integer.parseInt(binding.t2.*text*.toString());  
 }  
 if(state=='\*')  
 {  
 result=result\*Integer.parseInt(binding.t2.*text*.toString());  
 }  
 if(state=='/' && dividend!=0)  
 {  
 result=result/Integer.parseInt(binding.t2.*text*.toString());  
 }  
 if(state=='%' && dividend!=0)  
 {  
 result=result%Integer.parseInt(binding.t2.*text*.toString());  
 }  
  
  
  
 }  
 binding.t1.*text*=binding.t1.*text*.toString()+binding.t2.*text*.toString()+"%"  
 binding.t2.*text*=""  
 state='%'  
 **}** // Buttos for = AC -------------------------------------------------  
 binding.result.setOnClickListener **{** if(binding.t1.*text*!=null && binding.t2.*text*!=null) {  
 binding.t1.*text* = binding.t1.*text*.toString() + binding.t2.*text* num2 = Integer.parseInt(binding.t2.*text*.toString())  
// if (operation == '\*' && state=='+') {  
//  
// temp2 = temp2 \* num2  
// result=result+temp1  
// binding.t2.text = result.toString()  
// }  
 // SOLUTION LIES HERE --->  
  
  
 if(operation=='\*' && face=='+')  
 {  
 temp2 = temp2 \* num2  
 result=temp1+temp2  
 binding.t2.*text* = result.toString()  
  
 }  
 else if(operation=='\*' && face=='-')  
 {  
 temp2 = temp2 \* num2  
 result=temp1-temp2  
 binding.t2.*text* = temp1.toString()  
 }  
 else if(operation=='/' && face=='+')  
 {  
 temp2 = temp2 / num2  
 result=temp1+temp2  
 binding.t2.*text* = result.toString()  
 }  
 else if(operation=='/' && face=='-')  
 {  
 temp2 = temp2 / num2  
 result=temp1-temp2  
 binding.t2.*text* = result.toString()  
  
  
  
 }  
  
  
  
  
  
  
 else if(operation=='\*')  
 {  
 result=result\*num2  
 binding.t2.*text*=result.toString()  
  
 }  
  
 else if (operation == '+') {  
  
 result = result + num2  
 binding.t2.*text* = result.toString()  
 } else if (operation == '-') {  
 result = result - num2  
 binding.t2.*text* = result.toString()  
 } else if (operation == '/') {  
  
 try {  
 result = result / num2  
 binding.t2.*text*=result.toString()  
 }  
 catch(e:ArithmeticException) {  
  
 binding.t2.*text*="भाई क्या कर रहा है ?"  
  
 }  
  
 }  
 else if(operation=='%')  
 {  
 try {  
 result=result%num2  
 binding.t2.*text*=result.toString()  
 }  
 catch (e:ArithmeticException)  
 {  
 binding.t2.*text*="भाई क्या कर रहा है ?"  
 }  
  
 }  
  
 }  
  
 **}** binding.clear.setOnClickListener **{** var state:Int=0  
 binding.t2.*text*=""  
 binding.t1.*text*=""  
 result=0  
 num2=0  
 num3=0  
 operation='a'  
 temp1=0  
 temp2=0  
 face='a'  
 **}** }  
}