Jigar-01416437

```
//ViewController-Class


var calObject = Calculator.init()
@IBAction func btn1(_ sender: UIButton){
if( sender.tag == 0){
calculatorResults.text! += "0"
calObject.push(s: "0")}
else if( sender.tag == 1){
calculatorResults.text! += "1"
calObject.push(s: "1")}
else if ( sender.tag == 2){
calculatorResults.text! += "2"
calObject.push(s: "2")}
else if( sender.tag == 3){
calculatorResults.text! += "3"
calObject.push(s: "3")}
else if( sender.tag == 4){
calculatorResults.text! += "4"
calObject.push(s: "4")}
else if( sender.tag == 5){
calculatorResults.text! += "5"
calObject.push(s: "5")}
else if( sender.tag == 6){
calculatorResults.text! += "6"
calObject.push(s: "6")}
else if( sender.tag == 7){
calculatorResults.text! += "7"
calObject.push(s: "7")}
else if( sender.tag == 8){
calculatorResults.text! += "8"
calObject.push(s: "8")
}
else if( sender.tag == 9){
```

```
calculatorResults.text! += "9"
calObject.push(s: "9")}
else if( sender.tag == 10){
calculatorResults.text! += "+"
calObject.push(s: "+")}
else if( sender.tag == 11){
calculatorResults.text! += "-"
calObject.push(s: "-")}
else if( sender.tag == 12){
calculatorResults.text! += "*"
calObject.push(s: "*")}
else if( sender.tag == 13){
calculatorResults.text! += "/"
calObject.push(s: "/")}
else if( sender.tag == 14){
if calObject.checkValues() {
var result = calObject.calc()
calculatorResults.text! += "= \(result)"
if flag
{
History.text += calculatorResults.text! + "\n"
}
}
else
{
let alert = UIAlertController(title: "Input Alert", message: "Please Enter Valid Input.",
preferredStyle: UIAlertController.Style.alert) // add an action (button)
alert.addAction(UIAlertAction(title: "OK", style: UIAlertAction.Style.default, handler:nil))
// show the alert
self.present(alert, animated: true, completion: nil)
}
}
else if( sender.tag == 15){
calObject.clean()
```

```
calculatorResults.text! = ""}
else if( sender.tag == 16){
if sender.currentTitle == "Advance - With History" {
sender.setTitle("Standard - No History", for: .normal); History.isHidden = false
flag = true
} else{
sender.setTitle("Advance - With History", for: .normal); History.isHidden = true
History.text = ""
flag = false
}
}
}
}
```

```
// Calculator2.swift
// Calculator
// Created by user202327 on 9/30/21.
// Copyright © 2021 user202327. All rights reserved.
import Foundation
class Calculator{
var values = [String]()
func push(s: String){
values.append(s)
print(values)
}
func calc() -> Int {
var n1 = 0
var n2= 0
var calResult = 0
for stringIndex in 0...(values.count-1)
{
```

```
if( values[stringIndex] == "+" ){
if n1== 0 && n2== 0{
n1= Int(values[stringIndex-1])!
n2= Int(values[stringIndex+1])!
calResult = n1+ n2
n1 = calResult
}
else
{
n2= Int(values[stringIndex+1])!
calResult = n1+ n2
n1 = calResult
}
}
if( values[stringIndex] == "-" ){
if n1== 0 && n2== 0{
n1= Int(values[stringIndex-1])!
n2= Int(values[stringIndex+1])!
calResult = n1- n2
n1 = calResult
}
else
{
n2= Int(values[stringIndex+1])!
calResult = n1- n2
n2= calResult
}
}
if( values[stringIndex] == "*" ){
if n1== 0 && n2== 0{
n1= Int(values[stringIndex-1])!
n2= Int(values[stringIndex+1])!
calResult = n1* n2
n1= calResult
```

```
}
else
{
n2= Int(values[stringIndex+1])!
calResult = n1* n2
n1= calResult
}
}
if( values[stringIndex] == "/" ){
if n1== 0 && n2== 0{
n1= Int(values[stringIndex-1])!
n2= Int(values[stringIndex+1])!
calResult = n1/ n2
n1= calResult
}
else
{
n2= Int(values[stringIndex+1])!
calResult = n1/ n2
n1 = calResult
}
}
}
values.removeAll()
return calResult
}
```