CALCULATOR

```
7
8   import UIKit
9
10  class ViewController: UIViewController {
11
12      override func viewDidLoad() {
13          super.viewDidLoad()
14          // Do any additional setup after loading the
                view.
15      }
16  |
17
18
    @IBOutlet weak var t1: UITextField!
20
    @IBAction func b1(_ sender: UIButton) {
22          var s = Int(t1.text!)
23          s = s! + 1
24          t1.text = String(s!)
25      }
26
27
28
    @IBAction func b2(_ sender: UIButton) {
30          var s = Int(t1.text!)
31          s = s! - 1
32          t1.text = String(s!)
33      }
```

```swift
    @IBOutlet weak var a: UITextField!

    @IBOutlet weak var b: UITextField!

    @IBOutlet weak var c: UITextField!


    @IBAction func add(_ sender: UIButton) {
        var n1 = Int(a.text!)      ⚠ Variable 'n1' was never mut...
        var n2 = Int(b.text!)      ⚠ Variable 'n2' was never mut...
        var res = Int(n1! + n2!)   ⚠ Variable 'res' was never...
        c.text = String(res)
    }


    @IBAction func sub(_ sender: UIButton) {
        var n1 = Int(a.text!)      ⚠ Variable 'n1' was never mut...
        var n2 = Int(b.text!)      ⚠ Variable 'n2' was never mut...
        var res = Int(n1! - n2!)   ⚠ Variable 'res' was never...
        c.text = String(res)
    }


    @IBAction func div(_ sender: UIButton) {
    }

    @IBAction func mul(_ sender: UIButton) {
    }

}
```

SLIDER, SWITCH and SEGMENT

```swift
8  import UIKit
9
10 class ViewController: UIViewController {
11
12     override func viewDidLoad() {
13         super.viewDidLoad()
14         // Do any additional setup after loading the
                view.
15     }
16
       @IBOutlet weak var l1: UILabel!
18
19
       @IBOutlet weak var SwitchO: UISwitch!
21
22
23
       @IBAction func SwitchA(_ sender: UISwitch) {
25
26         if SwitchO.isOn ==  true{
27             l1.text = "Male"
28         }
29         else{
30             l1.text = "Female"
31         }
32
33     }
```

```swift
    @IBOutlet weak var l2: UILabel!



    @IBOutlet weak var Slider0: UISlider!



    @IBAction func SliderA(_ sender: UISlider) {

        var s = Float(Slider0.value)     ⚠ Variable 's' was ne...
        l2.text = String(s)


    }
```

```swift
48

    @IBOutlet weak var l3: UILabel!
50
51

    @IBOutlet weak var Segment0: UISegmentedControl!
53
54

    @IBAction func SegmentA(_ sender:
        UISegmentedControl) {
56          var s = Segment0.selectedSegmentIndex    ⚠ Variab...
57          switch s {
58          case 0:
59              l3.text =  sender.titleForSegment(at: s)
60              l3.textColor = UIColor.red
61          case 1:
62              l3.text = sender.titleForSegment(at: s)
63              l3.textColor = UIColor.blue
64              view.backgroundColor = UIColor.red
65          case 2:
66              l3.text = sender.titleForSegment(at: s)
67              l3.textColor = UIColor.green
68          case 3:
69              l3.text = sender.titleForSegment(at: s)
70              l3.textColor = UIColor.purple
71                                      I
72
73          default:
74              l3.text = sender.titleForSegment(at: s)
75          }
76
```

IMAGEVIEW , ALERT AND ACTION

```swift
8  import UIKit
9
10 class ViewController: UIViewController {
11
12     override func viewDidLoad() {
13         super.viewDidLoad()
14         // Do any additional setup after loading the vi
15     }
16     var imgarr : [UIImage] = [
17         UIImage (named: "pic1.jpg")!,
18         UIImage (named: "pic2.jpg")!,
19         UIImage (named: "pic3.jpg")!
20     ]
21
       @IBOutlet weak var IMAGEVIEW: UIImageView!
23
       @IBAction func play(_ sender: UIButton) {
25         IMAGEVIEW.animationImages = imgarr
26         IMAGEVIEW.animationDuration = 5
27         IMAGEVIEW.animationRepeatCount =  3
28         IMAGEVIEW.startAnimating()
29     }
30
       @IBAction func stop(_ sender: UIButton) {
32         IMAGEVIEW.stopAnimating()
33     }
```

```swift
    @IBOutlet weak var l1: UILabel!

    @IBAction func btn(_ sender: UIButton) {

        var okHandler1 = {    ⚠ Variable 'okHandler1' was never mutated;...
            (action: UIAlertAction) -> Void in
            self.view.backgroundColor = UIColor.red
        }

        var okHandler2 = {    ⚠ Variable 'okHandler2' was never mutated;...
            (action: UIAlertAction) -> Void in
            self.l1.text = "Congrats You pressed on Cancel"
        }

        var alert = UIAlertController(title: "WARNING",    ⚠
            message: "Don't Click Here", preferredStyle:
            .actionSheet)

        alert.addAction(UIAlertAction(title: "Ok", style:
            .default, handler: okHandler1))
        alert.addAction(UIAlertAction(title: "Cancel", style:
            .cancel, handler: okHandler2))
        self.present(alert, animated: true, completion: nil)
    }
}
```

WEB VIEW AND AUDIO

```swift
28
     @IBOutlet weak var WebView: UIWebView!    ⚠ 'UIWebVlew' was depreca...
30
     @IBAction func btn1(_ sender: UIButton) {
32
33       let urlString1 = URL(string:
             "https://www.youtube.com/watch?v=KUpwupYj_tY&t=1s")
34       let urlreq = URLRequest(url: urlString1!)
35       WebView.loadRequest(urlreq)
36
37   }
38
39
```

```swift
7
8  import UIKit                                              Ⓜ bt
9  import AVFoundation
10
11 class ViewController: UIViewController {
12     var player1 : AVAudioPlayer = AVAudioPlayer()
13     override func viewDidLoad() {
14         super.viewDidLoad()
15         // Do any additional setup after loading the view.
16
17         do{
18             var audioString1 = Bundle.main.path(forResource:
                   "sample-12s", ofType: "mp3")
19             try player1 = AVAudioPlayer(contentsOf:
                   NSURL(fileURLWithPath: audioString1!) as URL)
20         }
21
22         catch{
23
24         }
25
26
27     }
```

VIDEO

```swift
6  //
7
8  import UIKit
9  import AVFoundation
10 import AVKit
11
12 class ViewController: UIViewController {
13
14     override func viewDidLoad() {
15         super.viewDidLoad()
16         // Do any additional setup after loading the view.
17     }
18
19
20     var path:NSURL!
21     var videoPlayer: AVPlayer!
22     var videoPlayerController: AVPlayerViewController!
23
24
25
O      @IBAction func b1(_ sender: UIButton) {
27         path = NSURL(fileURLWithPath: Bundle.main.path(forResource: "SampleVideo", ofType:
               "mp4")!)
28         videoPlayer =  AVPlayer(url: path as URL)
29         videoPlayerController = AVPlayerViewController()
30         videoPlayerController.player = videoPlayer
31         self.present(videoPlayerController, animated: true, completion: nil)
32         self.videoPlayerController.player?.play()
33     }
34 }
35
36
```

SEGUE

First view controller file

```
6   //
7.
8   import UIKit
9
10  class ViewController: UIViewController {
11
12      override func viewDidLoad() {
13          super.viewDidLoad()
14          // Do any additional setup after loading the view.
15      }
16
        @IBOutlet weak var tf1: UITextField!
18
19
        @IBAction func login(_ sender: UIButton) {
21          pdata = tf1.text!
22          performSegue(withIdentifier: "ms1", sender: self)
23      }
24      |
25  }
26
```

Second view controller file

```
8   import UIKit
9
10  var pdata = String()
11  |
12  class SecondViewController: UIViewController {
13
14      override func viewDidLoad() {
15          super.viewDidLoad()
16          l1.text = "username is \(pdata)"
17          // Do any additional setup after loading the view.
18      }
19
        @IBOutlet weak var l1: UILabel!
21
```

TABLE VIEW

```swift
8  import UIKit
9
10 class ViewController: UIViewController, UITableViewDataSource,
       UITableViewDelegate {
11
12
13
14     var Continent: [String] = ["Asia", "Europe", "Australia"]
15
16     var Asia: [String] = ["India", "China", "Nepal"]
17     var Europe: [String] = ["Germany", "Argentina", "Iraq"]
18     var Australia: [String] = ["Adelaide", "Sydney", "Victoria"]
19
20
21     //3
22     func numberOfSections(in tableView: UITableView) -> Int {
23         return Continent.count
24     }
25
```

```swift
26
27
28     //1
29     func tableView(_ tableView: UITableView,
           numberOfRowsInSection section: Int) -> Int {
30
31         if(section == 0){
32             return Asia.count
33         }
34         else if(section == 1){
35             return Europe.count
36         }
37         else{
38             return Australia.count
39         }
40
41     }
42
43
44     //4
45     func tableView(_ tableView: UITableView,
           titleForHeaderInSection section: Int) -> String? {
46         return Continent[section]
47     }
48
49
50
```

```swift
//2
func tableView(_ tableView: UITableView, cellForRowAt
    indexPath: IndexPath) -> UITableViewCell {

    var cell2 =
        tableView.dequeueReusableCell(withIdentifier:
        "reuse1", for: indexPath)

    if(indexPath.section == 0){
        cell2.textLabel?.text = Asia[indexPath.row]
//        cell2.imageView?.image = Asia[indexPath.row]
    }
    else if( indexPath.section == 1) {
        cell2.textLabel?.text = Europe[indexPath.row]
    }
    else{
        cell2.textLabel?.text = Australia[indexPath.row]
    }
    return cell2
}
```

```
70
71      //5
72      func tableView(_ tableView: UITableView, didSelectRowAt
            indexPath: IndexPath) {
73          var value1 : String = "kk"    ⚠ Variable 'value1' was written to,…
74
75          if(indexPath.section == 0){
76              value1 = Asia[indexPath.row]
77          }
78          else if(indexPath.section == 1){
79              value1 = Europe[indexPath.row]
80          }
81          else{
82              value1 = Australia[indexPath.row]
83          }
84          var alert1 = UIAlertController(title: "Warning",    ⚠
                message: "Don't click ok", preferredStyle:
                .alert)
85
86          alert1.addAction(UIAlertAction(title: "Ok", style:
                .default, handler: nil))
87          alert1.addAction(UIAlertAction(title: "Cancel", style:
                .cancel, handler: nil))
88          self.present(alert1, animated: true, completion: nil)
89
90      }
91
```