```
1/ regular function:
    tunc function/Vame (payameter: parameter Type) -> return Type {
         1/Does something
          return output
    3
 Honvert time to closure
    tunc sum (tivst. Number: Int, second Number: Int) > Int {
        return first Number + second Number
  * I first Number : Int , second Number : Int ) - Int in
        return first Number + second Number
   Il can pass a function to another function and return another function
   import UIKit
   func calculator (n1: Int, n2: Int, operation: (Int, Int) > Int) > Int {
      veturn operation (n1, n2)
                                                  culculator (n1:2, n2:3, operation: {(nol: Int, no2: Int) > Int in
                                                       return nol * noz
                                                   3)
                                                                           IV data referal for input and veturn
                                                  culculator (n112, nz13, operation: {(nol, no2) in
 tune multiply (nol: Int, no2: Int) > Int &
                                                       return nol * noz
                                                                           Il inside closure only one line
      return nol + noz
                                                   3)
                                           =>
                                                  colculator (n1:2,nz:3, operation: {(nol, no2) in nol * no23)
 calculator | n1: 2, n2:3, operation : multiply
                                                                           # $0 for first paramater, $1 for second ene
                                                  colculator (n1:2,nz:3, operation: {$0 x $13)
                                                                            I trailing closure if the last parameter is a func
                                                  calculator (n1:2,n2:3) {$0 x $13
Hexample
  import UIKit
    let array = [1, 2, 3, 4,5]
     tune add One (nk Int) > Int ?
         return n/+1
                                            array, map ({$0+13) > array, map {$0+1}
     array, map (add One)
     11 convet to string
      let NewArray = array, map { "\($0)"}
```

```
11 call back functions
 import UIKit
 class Fivebase {
      func creat User (username: String, password: String, completion: (Bool, Int) > void){
           Il do something thre consuming
            Var 15 Success = true
            var userlb = 123
           (ompletion (15 Success, user 10)
class IngApp{
    func register Button Pressed () {
         let firebase = Firebase()
          tivebuse. create User (name: "A", password: "1234", campletion: completed)
      tune completed (: Success: Bool, userID: Int) {
           print ( "registeration is successful! ( !s Sucess)")
          print ("userID :s \(userID)")
       3
 let my App = My App ()
 myApp register Button Pressed ()
```