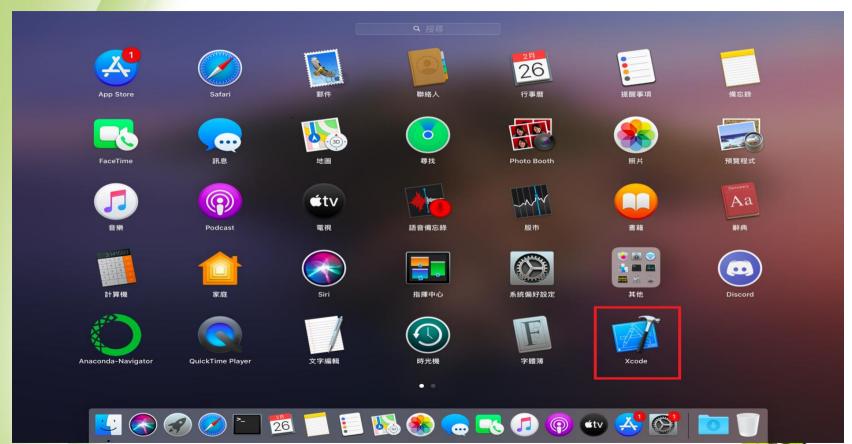
Syntax intro





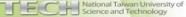
xcode





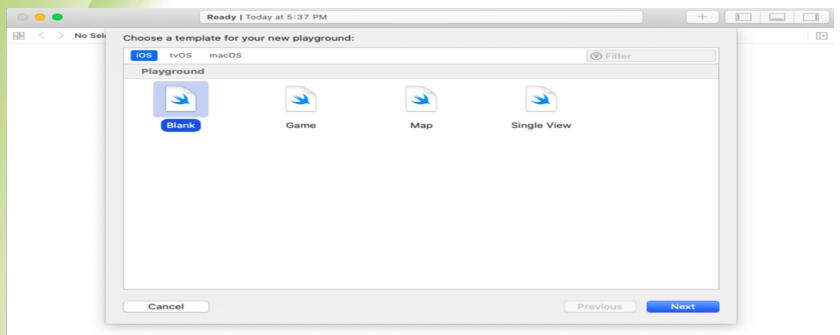
Playground





High-Performance Computing Laboratory

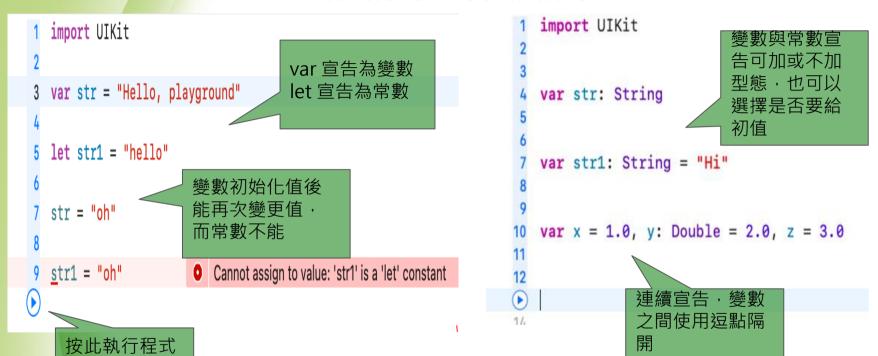
Playground







Variable Declaration





Print

```
import UIKit
   var str: String = "Hi"
   let str1: String = "Jack"
                              假如要print變
   print ("HI Jack")
                              數或常數可以
   print ("HI " + str1)
                              使用'+'或'\'
   print ("\(str) Jack")
10
11
12
                                       String 能用其
   var str2 = str + " " + str1
13
                                       他String來串接
   print (str2)
14

16
```



Control flow

```
import UIKit
   var condition: Bool = true
   var condition2: Int = 1
                             基本的if else 用
                             法,但condition
   if condition {
                             部分只能是Bool
                             型態
   }else if condition2 {
   }else {
```

```
import UIKit
var n = 3
               switch 中每個case中
               一定要有程式碼,
switch n{
               如果不需要執行的
case 1:
               内容可以使用break
    break
               跳過
case 2:
    print("2")
default:
            不像C/C++ 每個case
    break
            最後不一定要加
            break也會自己跳出
            switch
```



Function

```
var Height = 1.7 //variable
var Weight :Double = 45
let BMI : Double //constant
```

print ("YourBMI = \(BMI)")

```
函式的回
傳型態
```

```
func BMICalcuator (height: Double, weight: Double) -> Double {
    let BMI = weight / pow(height, 2)
    return BMI
}
BMI = BMICalcuator(height: Height, weight: Weight)
```

呼叫函式時 參數要對應 宣告時的標 籤





Optional

也可以自行宣告為Optional資料型態,

主要是在一般型態

後面加上'?'

一般的Int是無)法設為nil的因 此會被設為 Optional此資 料型態

> Optional就 好比一個 箱子可能 有東西也 可能沒有 要打開才 能知道

import UIKit 假如字串不是數字就會回傳nil

let possibleNumber = "Hello"
let convertedNumber = Int(possibleNumber)

6 print(type(of: convertedNumber))

print(convertedNumber) 使用type能知道目標 變數的型態

Optional<Int>

Optional<Int> Optional(123)





lacksquare

Optional

```
import UIKit
  let possibleNumber = "123"
  let convertedNumber = Int(possibleNumber)
  print(convertedNumber!)
Þ
         我們可以在變數後
         面加上'!'來將
         Optional解開取得裡
         面的資料
```





Optional

```
import UIKit
   let possibleNumber = "123"
   let convertedNumber = Int(possibleNumber)
5
   if let Number = convertedNumber{
       print(Number)
   } else {
       print("無法轉換為數字")
                               另一種方式是用if
10
                               let 生成常數去接收
•
                               Optional這樣比較
                               能避免出錯
```





×



Welcome to Xcode

Version 13.2.1 (13C100)



Create a new Xcode project

Create an app for iPhone, iPad, Mac, Apple Watch, or Apple TV.



Clone an existing project

Start working on something from a Git repository.



Open a project or file

Open an existing project or file on your Mac.



Show this window when Xcode launches



Seque

~/Desktop/2018 iOS/class03-1



AlertWithInput

~/Desktop/2018 iOS/class02-2



Alert

~/Desktop/2018 iOS/class02-2



Date Picker

~/Desktop/2018 iOS/class02-2



Hello world

~/Desktop/2018 iOS/class01-1



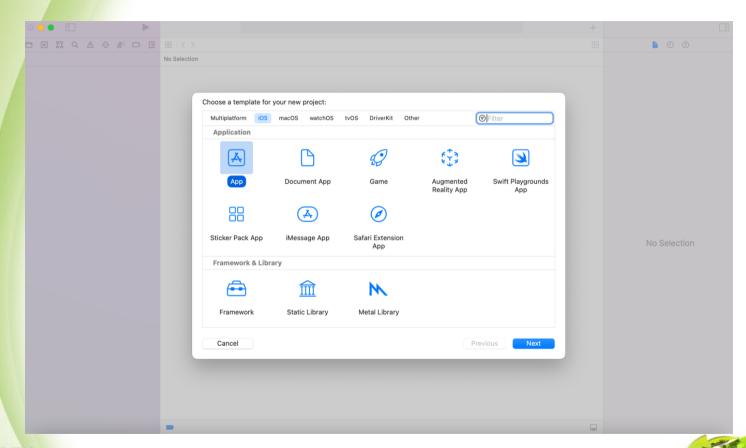
class02-1

~/Desktop/2018 iOS/class02-1

Open another project...









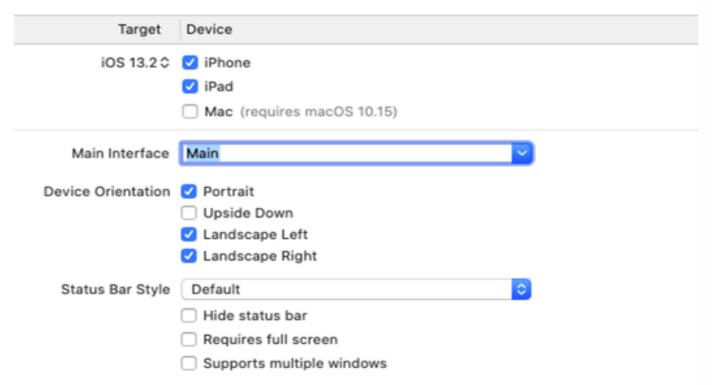
Product Name:	Hello world		
Team: Organization Identifier: Bundle Identifier: Interface: Language:	Add account		
	HPC		
	HPC.Hello-world		
	Storyboard Swift		
		0	
	Use Core Data		
	Host in CloudKit Include Tests		
	Include lests		

No Se



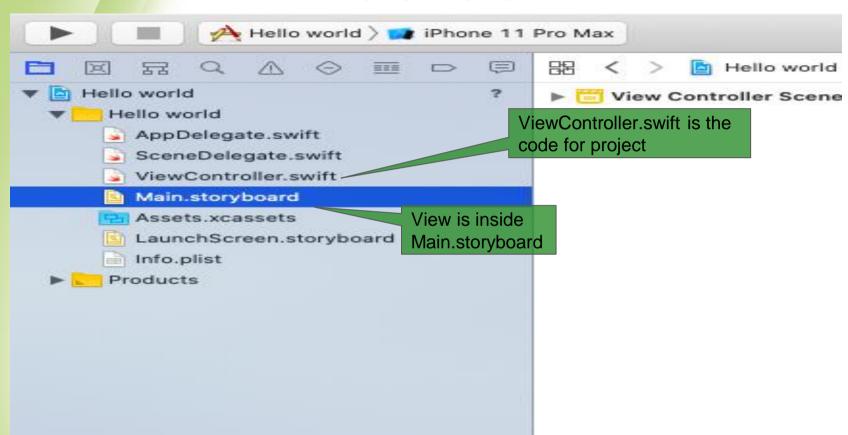


Deployment Info



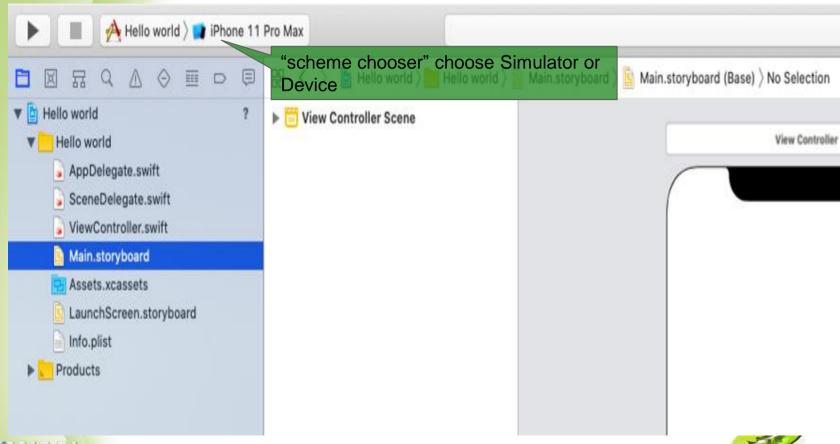






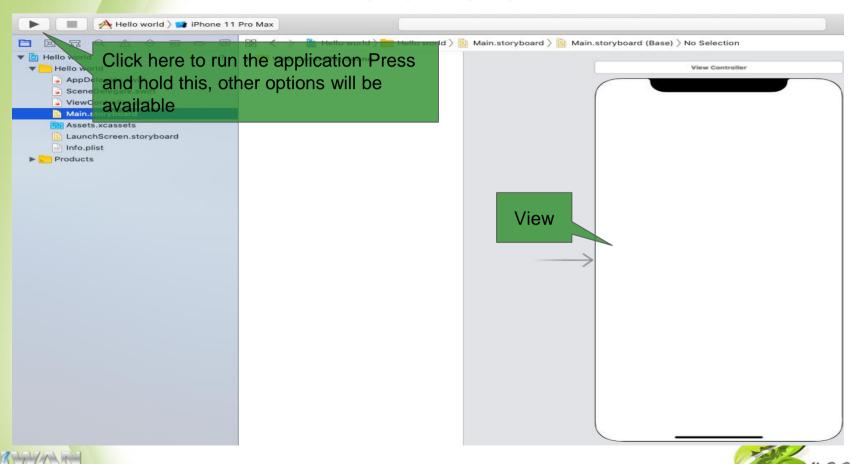


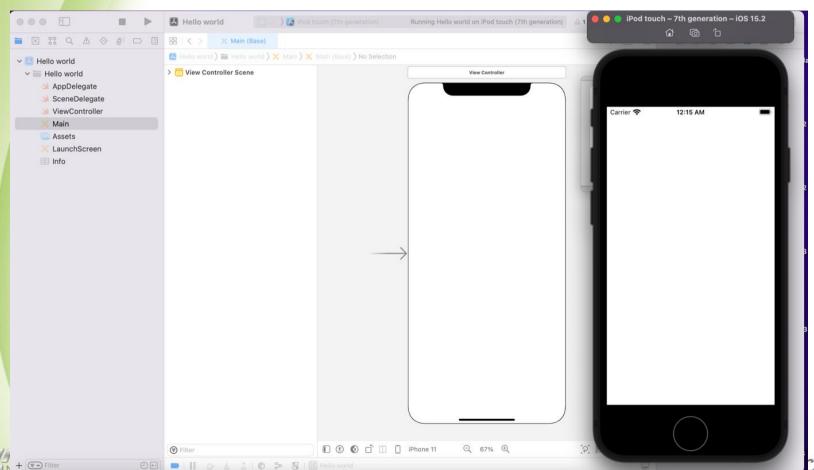
HPCLab



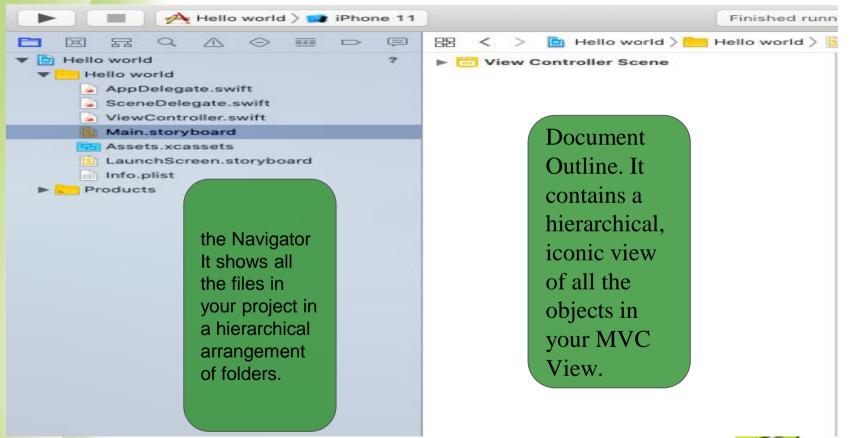


Hello World > To View Controller Scene View Controller "scheme chooser" choose Simulator or Device

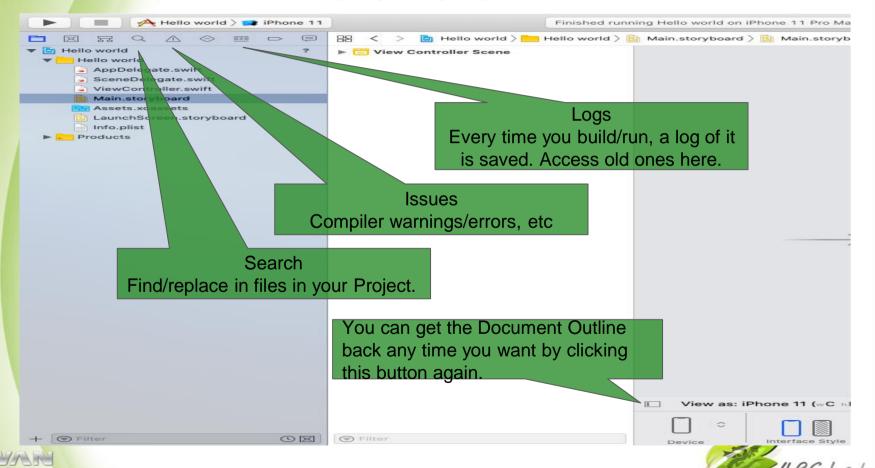


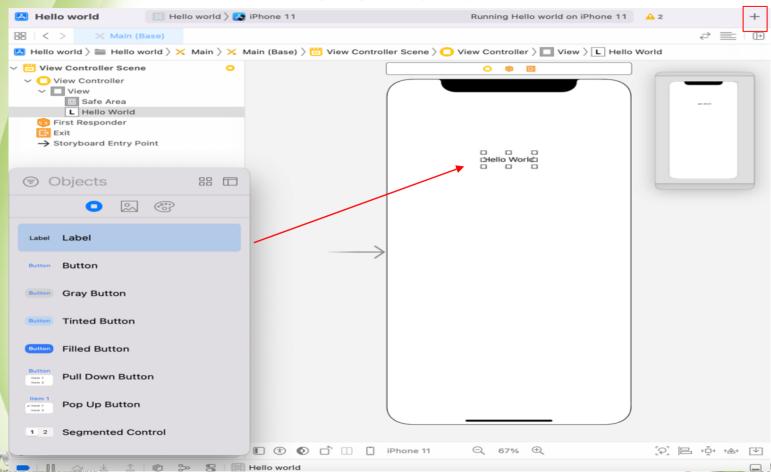


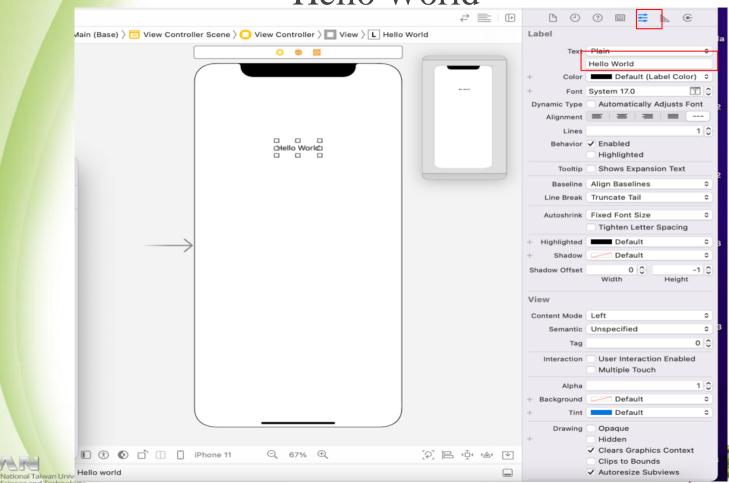
Science and Technology



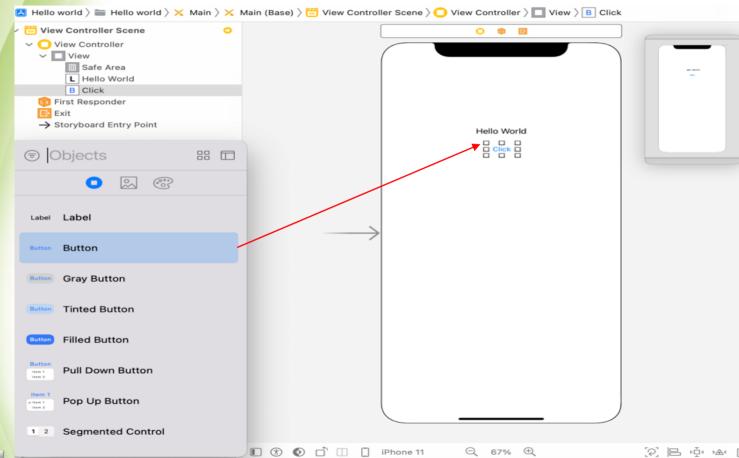




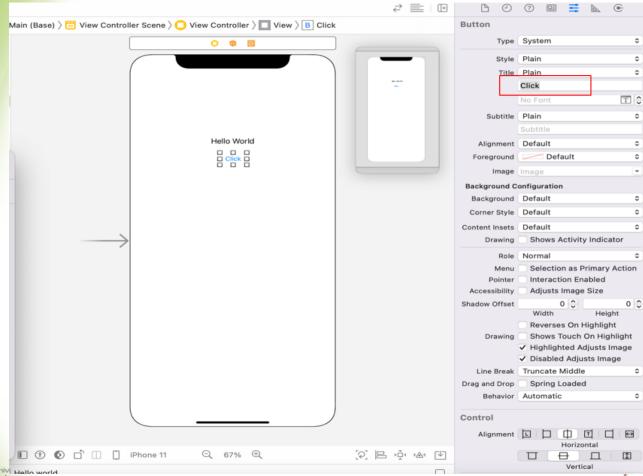


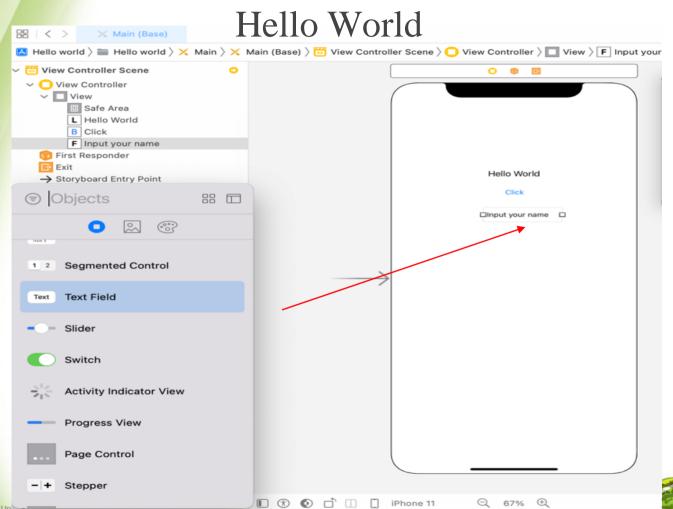


High-Performance Computing Laboratory

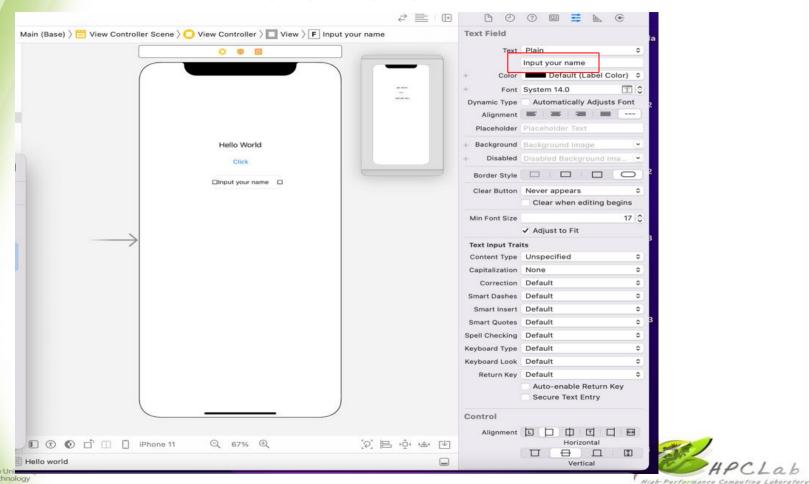


High-Performance Computing Laborato





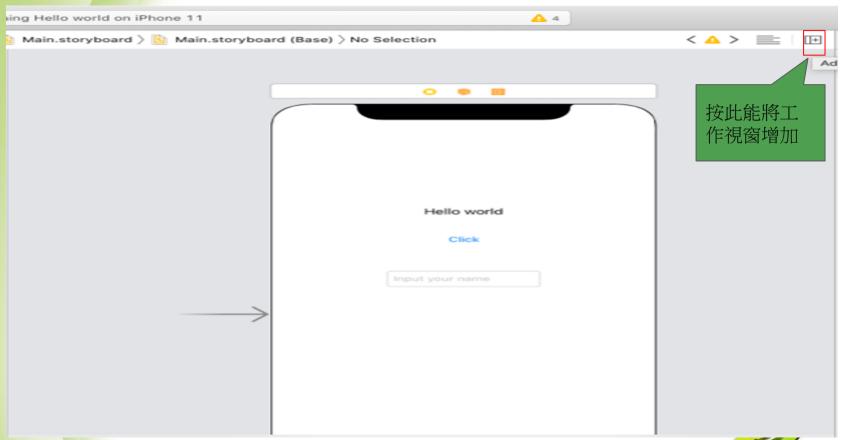
High-Performance Computing Laborator





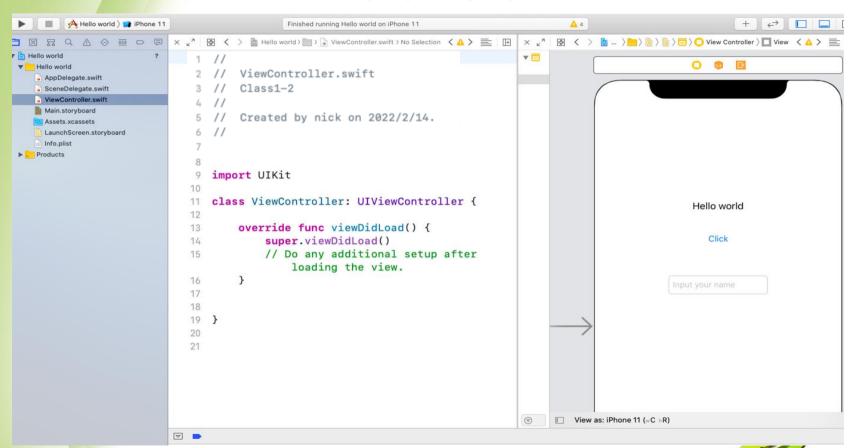






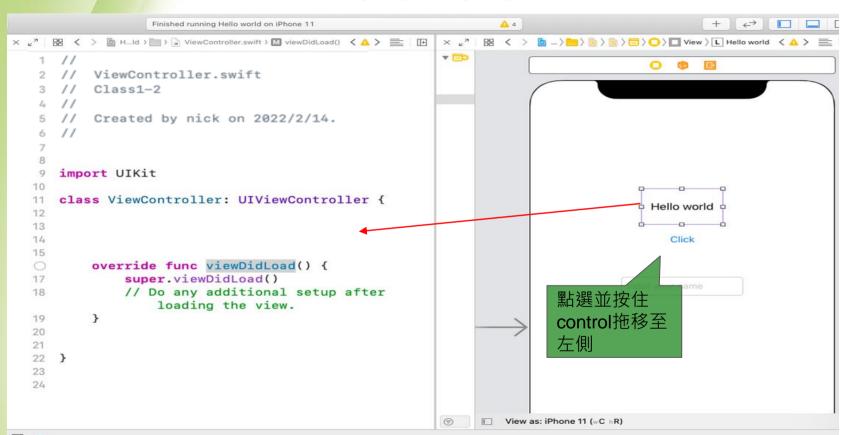






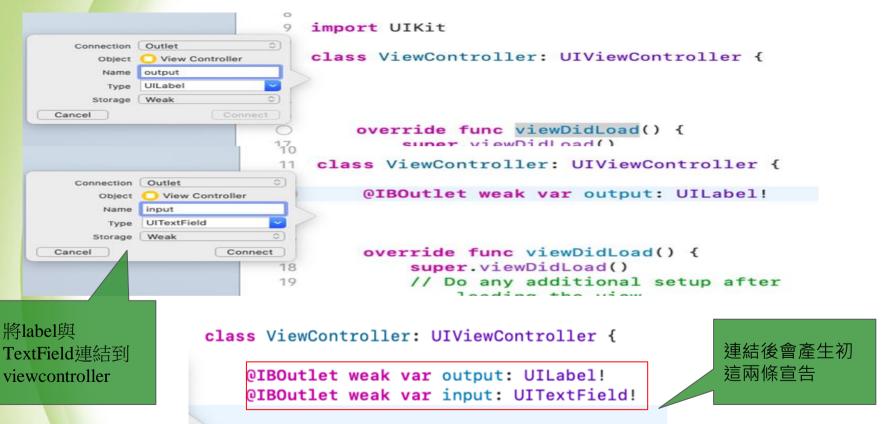






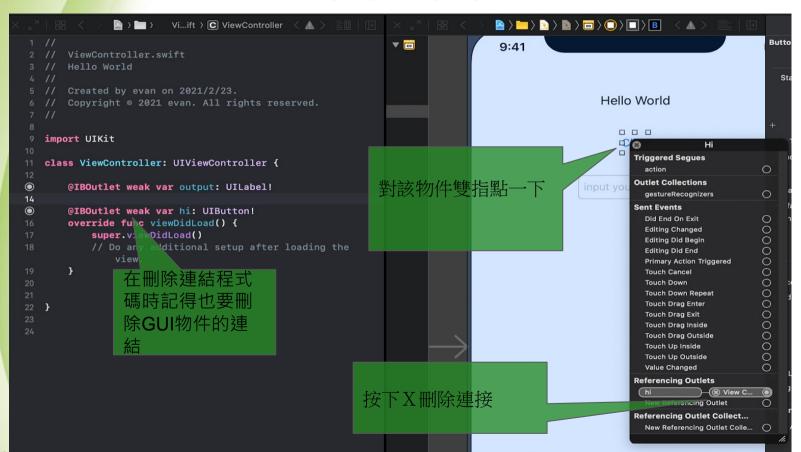




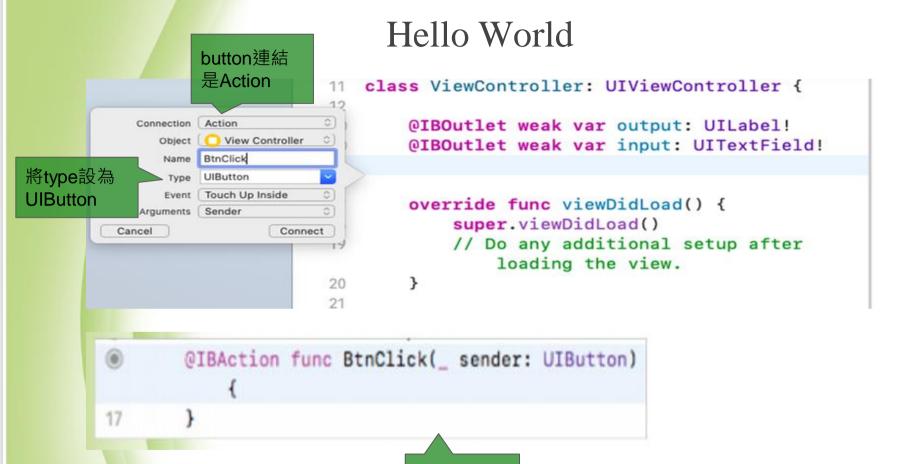


override func viewDidLoad() {













```
import UIKit
10
   class ViewController: UIViewController {
12
@IBOutlet weak var output: UILabel!
        @IBOutlet weak var input: UITextField!
@IBAction func BtnClick(_ sender: UIButton) {
            output.text = "Hello, \(input.text|)" \(\triangle \) String...
16
17
                          owDidLoad() {
18
        override
                   將labal的顯示
19
            super
            // Do
                                     etup after lo 此處的
20
                   "Hello, TextField的文字"
                                                    input.text為
21
                                                    Optional因此
22
                                                    要將他拆開
23
24
25
26
```





```
import UIKit
10
   class ViewController: UIViewController {
       @IBOutlet weak var output: UILabel!
       @IBOutlet weak var input: UITextField!
       @IBAction func BtnClick(_ sender: UIButton) {
           output.text = "Hello, \(input.text!)"
16
       override func viewDidLoad() {
18
           super.viewDidLoad()
19
           // Do any additional setup after loading the
20
               view.
```











```
您還未輸入名字!
        import UIKit
                                                                  請輸入名字
        class ViewController: UIViewController {
                                                                    OK
            @IBOutlet weak var output: UILabel!
            @IBOutlet weak var input: UITextField!
            @IBAction func BtnClick(_ sender: UIButton) {
               let controller = UIAlertController(title: "您還未輸入名字!",
先宣告一個
                    message: "請輸入名字", preferredStyle: .alert)
UIAlert · title
                let okAction = UIAlertAction(title: "OK", style: .default, handler:
決定訊息標題
                    nil)
message決定
                                                           做出一個
                controller.addAction(okAction)
訊息內容
                                                           Alert的互動
                if input.text! != "" {
                                                           按紐
                    output.text = "Hello,\(input.text!)"
                } else {
                    present(controller, animated: true, completion: nil)
     24
                              將訊息顯示
```





