

iOS..... Assignment 1

Dhwani Parmar ; IT-8 ; 31 ; 23/01/2024

Note : Screenshot attached at last..

// 1. Write a Swift Program to print the value of a variable inside a text, place it in parentheses, and insert a backslash just prior to the opening parenthesis using swift language.

```
import UIKit
```

```
var greeting = "Dhwani..!"
```

```
print("Hello World.. My name is: \"(greeting) ")
```

// 2. Write a Program to print constants and variables using swift language.

```
import UIKit
```

```
var greeting = "Hello, playground"
```

```
print(greeting)
```

```
let number = 31
```

```
print(number)
```

```
greeting = "Dhwani...."
```

```
print(greeting)
```

```
var name = "Dp"
```

```
name = "hii.. iOS"
```

```
// 3. You are given two numbers a and b. Compute the sum of a and b and create a string stored  
in a variable named formattedSum that contains the sum written like bellow:  For a=2 and b=5  
formattedSum="2+5=7"
```

```
import UIKit
```

```
var greeting = "Hello, playground"
```

```
var a = 2
```

```
var b = 5
```

```
var sum = a+b
```

```
var formattedSum="\ (a) + \ (b) = \ (sum)"
```

```
++=
```

```
print("Formatted Sum = \({formattedSum})")
```

```
// \a - embeds value of var a into string
```

```
// 4. Write a Program to understand Nested Loops in Swift by a program to display 7 days of 2 weeks.
```

```
import UIKit
```

```
var greeting = "Hello, playground 4"
```

```
var weeks = ["monday", "tuesday", "wednesday", "thursday", "friday", "saturday", "sunday"]
```

```
// for in loop
```

```
// ... close range operator create range of value
```

```
// in indicate range
```

```
for weeks in 1...2
```

```
{
```

```
    print("7 days of 2 week: \({weeks} ")
```

```
    for days in 1...7
```

```
    {
```

```
        print("        Days of \({weeks} week: \({days})")
```

```
}
```

```
}
```

```
// nested for loop syntax..
```

```
// outer loop --> for i in 1...5{codes //inner loop --> for j in 1...2 {code}}
```

```
// ... meaning -> 1 thi ley kaya num sudhi joye
```

// 5. Write a Program to understand Swift while and repeat while Loop by a program to display numbers from 1 to 5.

```
import UIKit
```

```
var greeting = "Hello, playground"
```

```
// while
```

```
var num = 1
```

```
while num<5
```

```
{
```

```
    print(num)
```

```
    num = num + 1
```

```
}
```

```
print(" ")
```

```
// repeat while  
var num1 = 10  
repeat  
{  
    print(num1)  
    num1 = num1 + 1  
}  
while  
    num1<20
```

// 6. Define an array that contains the names "Monday", "Tuesday", "Wednesday", "Thursday", "Friday". Use the append() method to add "Saturday" to the array. Use the += operator to add "Sunday" to the array.

```
import UIKit
```

```
var greeting = "Hello, playground"
```

```
var week = ["Monday", "Tuesday", "Wednesday", "Thursday", "Friday"]
```

```
week.append("Saturday")
```

```
week += ["Sunday"]
```

```
print("Days of the Week: \week")
```

// 7. Use a for loop to iterate through the array above, and print out each value with its index; i.e., "Day 0 is Monday", "Day 1 is Tuesday", etc.

```
import UIKit
```

```
var greeting = "Hello, playground"
```

```
var week = ["Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday", "Sunday"]
```

```
for(index,days) in week.enumerated()
```

```
{
```

```
    print("Day \index is \days")
```

```
}
```

//enumerated --> define common type for group of related values

// 8. Define a dictionary containing author names and "readability score": "Twain" 8.9
"Hawthorne" 5.1 "Poe" 7.3 Print the score for "Poe".

```
import UIKit
```

```
var greeting = "Hello, playground"
```

```
var readabilityscore = ["twain" : 8.9 , "Hawthorne" : 5.1 , "Poe" : 7.3 , "dhwani" : 6.4]
```

```
// var poeScore = readabilityscore["poe"]
```

```
if var poeScore = readabilityscore["Poe"]
```

```
{
```

```
    print("Score for Poe: \"(poeScore)\")
```

```
}
```

```
else
```

```
{
```

```
    print("Not found")
```

```
}
```

```
// var without if
```

```
var dhwaniScore = readabilityscore["dhwani"]
```

```
if(dhwaniScore==0)
```

```
{
```

```
    print("Score for Dhwani: \"(dhwaniScore)\")
```

```
}
```

```
else
```

```
{  
    print("Not found")  
}
```

```
// if-elseif-else
```

```
if var dhwaniScore = readabilityscore["Poe"]  
{  
    print("Score for dhwaniScore: \(dhwaniScore)")  
}  
else if var twainScore = readabilityscore["twain"]  
{  
    print("Score for twainScore: \(twainScore)")  
}  
else  
{  
    print("Not found")  
}
```

```
// 9. Add the author "Steinbeck" to the dictionary, with the score 6.1.
```

```
import UIKit
```



```
var greeting = "Hello, playground"
```

```
var readabilityscore = ["twain" : 8.9 , "Hawthorne" : 5.1 , "Poe" : 7.3 ]
```

```
// add
```

```
readabilityscore["Steinbeck"] = 6.1
```

```
print("Updated author Score for Steinbeck: \(readabilityscore)")
```

// 10. Use a for loop to iterate through the dictionary and print out each author name and score;
i.e., "Author Twain has score 8.9", "Author Hawthorne has score 5.1", etc.

```
import UIKit
```

```
var greeting = "Hello, playground"
```

```
var readabilityscore = ["twain" : 8.9 , "Hawthorne" : 5.1 , "Poe" : 7.3 , "Dhwani" : 6.6]
```

```
for(author,score)in readabilityscore
```

```
// used to iterate through dictionary
```

```
{
```

```
    print("Author: \(author) and it's Score: \(score)")
```

```
}
```



