**44643 Mobile Computing-iOS**

**Loops:**

**// value from an array is retrieved using the index as array[index].**

**// Range Operator is a shortcut for expressing range of values.**

**// we represent range operator using (a...b) the values a and b are bounds and they are inclusive.This is closed range operator.**

**// To exclude the upper bound in a range we use Half-range operator (a..<b).**

**for loop:**

1. **var number:Int = 5**

**for index in 1...5 {**

**print("\(index) \* \(number) = \(index\*number)")**

**}**

**Ans: 1 \* 5 = 5**

**2 \* 5 = 10**

**3 \* 5 = 15**

**4 \* 5 = 20**

**5 \* 5 = 25 - ✅**

1. **var totalNumbers = 100**

**var sum:Int = 0**

**for number in 1...totalNumbers {**

**sum+=number**

**}**

**print("The sum of first \(totalNumbers) is \(sum)")**

**Ans: The sum of first 100 is 5050 - ⭕️**

1. **var coreLang = ["Java","Swift","Javascript","ASP.net","SQL"]**

**//In swift Array is declared using var arrayName=[]**

**for index in 0..<coreLang.count {**

**print("\(coreLang[index])")**

**}**

**Ans: Java**

**Swift**

**JavaScript**

**ASP.net**

**SQL - ✅**

1. **var totalSum = 10**

**for val in 1...totalSum {**

**if (val%2 == 0) {**

**print("\(val)",terminator:",")**

**}**

**}**

**print(" are all even numbers")**

**Ans: 2,4,6,8,10, are all even numbers - ✅**

1. **var member=true**

**var scratchCard=10**

**var count=0**

**for attempt in 1..<scratchCard {**

**count+=1**

**if member {**

**if count>3 {**

**print("You won \(scratchCard-2)$")**

**count=0**

**break**

**}**

**}else{**

**if(count>8){**

**print("You got \(scratchCard-8)$")**

**}**

**}**

**}**

**Ans: You won 8$ - ✅**