Muhammad Asad

Assignment: 1

Batch: IOS Alpha 1906

Lecture # 1

**Exercises**

import Foundation

//question 1

let exercises: Int = 11

var exercisesSolved: Int = 0

exercisesSolved = exercisesSolved + 1

//question 2

var age: Int = 16

print(age)

age = 30

print(age)

exercisesSolved = exercisesSolved + 1

//question 3

let a: Int = 46

let b: Int = 10

1//

let answer1: Int = (a \* 100) + b

print(answer1)

2//

let answer2: Int = (a \* 100) + (b \* 100)

print(answer2)

3//

let answer3: Int = (a \* 100) + (b / 10)

print(answer3)

exercisesSolved = exercisesSolved + 1

//question 4

let number: Int = ((5 \* 3) - 4 / (2 \* 2))

print(number)

exercisesSolved = exercisesSolved + 1

//question 5

let a1: Double = 9.87

let b1: Double = 7.37

let average: Double = (a1 + b1) / 2

print(average)

exercisesSolved = exercisesSolved + 1

//question 6

let fahrenheit: Double = 32

let celcius: Double = (fahrenheit - 32) \* 5 / 9

print(celcius)

exercisesSolved = exercisesSolved + 1

//question 7

let position: Int = 33

let row: Int = position / 8

let column: Int = position % 8

print(row)

print(column)

exercisesSolved = exercisesSolved + 1

//question 8

let dividend: Double = 10

let divisor: Double = 4

let quotient = (dividend / divisor)

let reminder = (dividend - divisor \* (dividend / divisor))

print(quotient)

print(reminder)

exercisesSolved = exercisesSolved + 1

//question 9

let degrees: Double = 60

let radians: Double = degrees \* (3.14 / 180)

print("angle in \(radians) radians")

exercisesSolved = exercisesSolved + 1

//question 10

let coordinates2D = (x1: 3.5, y1: 4.5, x2: 1.5, y2: 2.5)

let x1 = coordinates2D.x1

let x2 = coordinates2D.x2

let y1 = coordinates2D.y1

let y2 = coordinates2D.y2

let distance = sqrt(((x2 - x1) \* (x2 - x1)) + ((y2 - y1) \* (y2 - y1)))

print(distance)

exercisesSolved = exercisesSolved + 1

//question 11

exercisesSolved = exercisesSolved + 1

print("Percentage of exxercise is solved :", exercisesSolved / exercises)

**Challenges**

//challenge 1

let coordinate = (2, 3)

let x = coordinate.0

let y = coordinate.1

print(x)

print(y)

//challenge 2

let namedCoordinate = (row: 2, column: 3)

print(namedCoordinate.row)

print(namedCoordinate.column)

//challenge 3

let character: Character = “Dog” is an invalid statement.

Other are valid statements

//challenge 4

code is invalid because in 2nd line “tuple.Day” . variable name is not correct.

//challenge 5

We can’t Use let type when we change the value of variable.

//challenge 6

Type of constant called value is Double

//challenge 7

Value of month is “8”

//challenge 8

Value of summary is “50”

//challenge 9

Value is 92

//challenge 10

We cannot declare let variable in if-else. Should declare var data type.

//challenge 11

Answer: True

Answer: False

Answer: True

Answer: True