

UAL Creative Computing Institute Diploma

Unit 4: "Coding for Collaborative App Development"

Assessment 1: MOCK Multiple Choice Test

Tuesday 26th May, 2020.

Correct answers are indicated below each list of four possible answers **in bold**.

Question 1:

What does // pair of characters indicate in Swift?

- Divide a variable twice by the same number
- Divide a variable twice by different numbers
- A code comment
- Calculate the cosine of a variable

A code comment

Question 2:

To make it easier to read identifiers or names with multiple words, every word after the first word should be capitalised. What is this way of writing out names called?

- Camel Case
- Snake Case
- Kebab Case
- None of the above

Camel Case

Question 3:

You find the following line of code in a friend's Swift project:

```
let pa = 14
```

Why might this be poor line of code?

- pa isn't equal to 14
- pa should be capitalised
- pa isn't a meaningful name
- None of the above

pa isn't a meaningful name

Question 4:

Which of these are strings?

"£9.99"

"110%"

Neither first nor second options

Both first and second options

Both first and second options

Question 5:

Which of these is the escape character for coding in Swift?

/

\

!

,

\

Question 6:

What is the name of the IDE for writing Swift software on macOS?

Visual Studio

xCode

Workbench

Atari ST

xCode

Question 7:

What don't programmers like doing?

Repeating themselves

Repeating themselves

Repeating themselves

All of the above

All of the above

Question 8:

What's another word for the lines of code that a function contains?

Return value

Body

Parameters

Clause

Body

Question 9:

With the following code, what would you expect to see in the console in a playground?

```
func saySomething() {  
    print("Functions are awesome")  
}
```

saySomething
Functions are awesome
Nothing
None of the above

Nothing

Question 10:

What does API stand for?

Always Pretty Important
Application Programming Interface
Applicable Program Interpretation
Automatic Program Input

Application Programming Interface

Question 11:

What best describes an algorithm?

Only calculations that use advanced mathematics
The computer equivalent of rhythm
A step-by-step series of operations
The same thing as an identifier

A step-by-step series of operations

Question 12:

Which line is declaring a variable?

```
name = "Joel"  
let name = "Joel"  
let "Joel" = name  
var name = "Joel"  
  
var name = "Joel"
```

Question 13:

What is the value of score after this code:

```
var score = 0
score += 1
score -= 1
```

0

1

2

This code will not work

0

Question 14:

What is the value of message after this code?

```
var message = ""
message += "Hello"
message += "World"
```

"Hello"

"World"

Hello World

"HelloWorld"

"HelloWorld"

Question 15:

What type is foo in the code below?

```
let foo = "Hello "
```

let

String

"Hello "

Hello

String

Question 16:

What type is foo in the code below?

```
let foo: Double = 84
```

Double

foo

84

Int

Double

Question 17:

How does Swift decide what type distance should be?

```
let distance: Double = 42
```

Type inference
Type annotation
Type writing
Type interference

Type annotation

Question 18:

How can you change the type of a constant or variable after it's declared?

Create the value as a var variable
Don't give the value a type
You can't change the type of a value
Assign a new value of a different type

You can't change the type of a value

Question 19:

Which line declares a function that takes a Double argument called appleWeight?

```
func makeSmoothie(Double: appleWeight) {  
func makeSmoothie(appleWeight: Double) {  
func makeSmoothie(appleWeight, Double) {  
func makeSmoothie(Double, appleWeight) {
```

```
func makeSmoothie(appleWeight: Double) {
```

Question 20:

Which line declares a function that returns an Int?

```
func countFruits(): Int {  
func: Int countFruits() {  
func countFruits() -> Int {  
Int func countFruits() {
```

```
func countFruits() -> Int {
```