UAL Creative Computing Institute Diploma
Unit 4: "Coding for Collaborative App Development"
Assessment 1: Multiple Choice Test
Monday 1st June, 2020.

Directions: Please fill out your name below. Please answer each of the 20 questions once, by ticking the box of the answer you think is correct. You may use the internet, but do not talk, confer with others or cheat. You are only cheating yourself. Otherwise, standard exam conditions apply. Use paper to work out your answers if you need to

Duration: 72 hours
Name (PRINT IN CAPITALS):

Question 1:

What does the let keyword followed by an identifier or name mean in Swift?

☐ It allows you to ignore the value of a variable
☐ It declares a variable value to the name
☐ It declares a constant value to the name
☐ None of the above

Question 2:

What symbol is used in Swift as the assignment operator?

☐ +
☐ =
☐ &
☐ *

Question 3:

Which of these are strings?

☐ "I am a systems artist"
☐ 42
☐ Neither first nor second options
☐ Both first and second options are strings

Question 4:

What is a character in programming?

☐ A distinguished coder like Ada Lovelace or Alan Turing

☐ The first 140 ASCII symbols
☐ A letter from A to Z
☐ A piece of a string like a letter, punctuation mark or number

Question 5:

What is the escape character for in Swift?

☐ Undoing the last program command
☐ Telling the computer to quit an app
☐ Skipping the rest of the string
☐ Treating the next character in a special way

Question 6:

How much does Xcode cost?

☐ Nothing, it's a free download.
☐ $100
☐ $10
☐ None of the above

Question 7:

Which line is the correct way to declare a function?

☐ func myFunction() {
☐ func = myFunction() {
☐ let myFunction = func() {
☐ let func = myFunction() {

Question 8:

Which of the following is not a benefit of using functions?

☐ They keep your code organised
☐ They prevent repeated code
☐ They make larger programs easier to understand
☐ They can give you infinite loops

Question 9:

Is it possible to call a function from within another function?

☐ Yes, always
☐ Yes, sometimes
☐ No, never
☐ None of the above

Question 10:

What is an API?

☐ A safety check to make sure a program works
☐ A tool for writing programs
☐ A rating given to experienced programmers
☐ The set of functions that you can use within a particular programming area

Question 11:

Which line is declaring a constant?

☐ name = "Joel"
☐ let name = "Joel"
☐ let "Joel" = name
☐ var name = "Joel"

Question 12:

What is the value of score after this code:

```
var score = 2
score = score - 1
```

☐ 2
☐ 3
☐ 1
☐ This code will not work

Question 13:

You're writing a program for scoring a word game. Each letter has a value between 1 and 10 and players earn points for making words. What should be stored as a constant in the program?

☐ The scores per letter
☐ The list of words the player has made
☐ The player's score
☐ Nothing

Question 14:

What is wrong with this code?

```
var score = 15
score =+ 5
```

☐ Nothing
☐ The scores are wrong
☐ score is a constant and cannot be changed
☐ =+ should be +=

Question 15:

What type is foo in the code below?
let foo = 42

☐ Double
☐ foo
☐ 42
☐ Int

Question 16:

What type is foo in the code below?
var foo: SolarPhenomenon

☐ SolarPhenomenon
☐ Interstellar
☐ variable
☐ Not possible to tell

Question 17:

What is one way Swift determines the type of a value in your code?

☐ Type intrusion
☐ Type allegiance
☐ Type writing
☐ Type inference

Question 18:

Which line shows correct type annotation in Swift?

☐ Double: let savings
☐ let Double: savings
☐ let savings: Double
☐ let Double

Question 19:

What is the name for the information passed into a function?

☐ Disagreements
☐ Arguments
☐ Values
☐ Terms

Question 20:

Which line correctly declares a function that takes a String argument called word and a Double argument called number?

☐ func makeFracture(String: word : Double: number) {
☐ func makeFracture(word: String number: Double) {

- [ ] `func makeFracture(String, Double)(word, number) {`
- [ ] `func makeFracture(word: String, number: Double) {`