Name: _____ Class: _____

Sec 4 Computing Prelim 2018 Paper 2

Task 1

1	Saved as **MYJOBS**_<Class>_<Class_Index_Number>_<Your_Name>
2	=RIGHT(D4,2) Propagate for whole column
3	=VLOOKUP(E4,$B$18:$C$23,2,FALSE) + (F4*G4) Propagate for whole column
4	Conditional Formatting blue background for total cost above $50
5	=COUNTIF($C$4:$C$13,E18) Output: 4,1,1,2,1,1 (1 mark for every 3 correct formula)
6	Total Cost in bold in G14 =SUM(H4:H13) in H14
	Subtotal:

Task 2

7a	Correct code for largest digit and correct output and printing of output
7b	Correct code for copying uppercase letters Correct output and printing of uppercase letters in a list
7c	Correct testing of user input for 6 characters in length Ask user for input again Display suitable error message
8	Saved as as **VARANALYSIS**_<Class>_<Class_Index_Number>_<Your_Name> Correct code for calculating total Correct code for calculating average Correct output and printing of average
	Subtotal:

Task 3

9	**import math #1m or they use power 0.5**
	
	number_steps **= 0 #1m**
	current_location = [0,0]
	print("Current location: ", current_location)
	
	while True:
	  direction = input("Enter the direction (up, down, left, right). Type exit to end: ")
	  if direction == **"exit":#1m**
	  break#1m
	  else:
	  number_steps = **int**(input("Enter the number of steps to move: "))**#1m**
	  if direction **==** "up":**#1m**
	  current_location[1] += number_steps
	  elif direction == "down":
	  current_location[1] -= number_steps
	  elif direction == "left":
	  current_location[0] **-=** number_steps**#1m**
	  elif direction == "right":**#1m**
	  current_location**[0]** += number_steps**#1m**
	  print("\nCurrent location: ", current_location)
	  print("Distance travelled: ", round(math.sqrt(current_location[0]**2 + current_location[1]**2),2)**)#1m**	

	Subtotal:	10

10	Initialise counter variables with suitable data types
	Use of for / while loops correctly
	Obtains (7 valid sets of) user input
	Manipulation of input data to retrieve ages (e.g. string slicing / list.split())
	Type forcing of input to float
	Validates input are floats and ensures valid input
	Validates input are between 40 and 70 (inclusive) and ensures valid input
	Calculates average category timing correctly
	Rounds off average age to nearest year (e.g. round() / int() / % / //)
	Print timings to 2 decimal places (e.g. using print formatting)
	Q10 SUBTOTAL
11	Category & Ave Timing printed correctly & accurately (excludes rounding inaccuracies, includes tabs, spelling & caps)

	Champion & Champ Timing printed correctly & accurately (excludes rounding inaccuracies, includes tabs, spelling & caps)
	Medley block printed accurately & correctly (excludes rounding inaccuracies, includes tabs, spelling & caps)
	Q11 SUBTOTAL

12	Validation of input should account for "-"
	Account for varying denominators in finding average category timings
	Account for lack of medley timing when a swimmer fails to participate in all categories
	Prints private test case accurately and correctly (Inputs are all "-")
	Prints output accurately and correctly (ECF from **Q11**)
	Q12 SUBTOTAL
13	Asks for user input for number of participants / allows users to end data entry where required
	Ensures that there must be a minimum of 4 participants / entries
	Q13 SUBTOTAL
	TASK 4 TOTAL