**Worksheet 1: Strings and variabl**

Using the basic program below as an example to build on and refer to, complete the challenges to improve your skills and help commit the syntax to memory.

print ("What is your first name?")

firstname = input()

print ("Hello,", firstname)

1. Add three more very similar lines of code to do the following: (Be careful with the spelling of the syntax.)

Ask the user to enter their surname

Assign their answer to a new variable called surnamen

Output“Your surname is” *surname*

Save and run your new program by pressing F5. Debug it if it contains any errors.

1. Add the following line of code:

print ("Hello,",firstname,surname)

What do think will happen? Run the program to find out.

1. The following line of code will print the first character in each of the firstname and surname variables. Python starts counting at 0, so if firstname = “Tom”, firstname[0] is “T”, firstname[1] is “o”, firstname[2] is m.

print("Your initials are:",firstname[0],surname[0])

1. Declare another variable called fullname.

Make this equal to firstname + " " + surname. What do you think the + " " does in the code below?

fullname = firstname + " " + surname

print(fullname)

1. The code print(firstname.upper()) would print the user’s name in capital letters. Write a line of code to print the surname in capitals, followed by the first name.
2. The code len(firstname) would return the number of letters in the user’s first name. Write some code that would tell the user how many letters were in their surname.
3. Write some code that would create a new variable to hold a username for a login system. The username must be created from the first three letters of the user’s surname, followed by their first initial, followed by the length of their surname. E.g. Jack Smith would have the username **smij5**. Hint: Use str(len(surname)) for this exercise.