COS20007

Task 1.1P

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- 1. Explain the terminal instructions **cd**, **Is**, and **pwd**. Provide a screenshot showing these instructions being used correctly.
 - cd is change directory command to change the directory

Is is command to list all the document in a directory

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## Windows Powesheld

PS Cilbsers\assus\desktop

SCIUsers\assus\desktop

Directory: Cilbsers\assus\desktop

Directory: Ci
```

Pwd is a command to show the current directory

2. Consider the following kinds of information, and suggest the most appropriate data type to store or represent each:

A person's name	String
A person's age in years	integer
A phone number	integer
A temperature in Celsius	double
The average age of a group of people	double
Whether a person has eaten lunch	boolean

3. Aside from the examples already given, come up with an example of information that could be stored as:

A string data type	School name
An integer data type	Number of player
A float data type	Amount of money I used
A boolean data type	Whether I absent the class

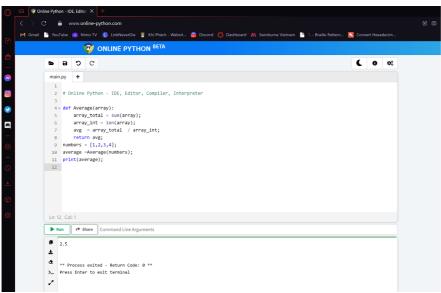
4. Fill out the following table, evaluating the value of each expression and identifying the data type the value is most likely to be.

Expression	Given	Value	Data Type
5		5	integer
TRUE		true	boolean

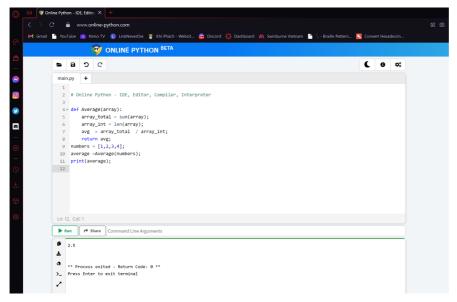
a	a = 2.5	2.5	double
1 + 2 * 3		7	integer
a and FALSE	a = TRUE	Fasle	boolean
a or FALSE	a = TRUE	True	boolean
a + b	a = 1 and $b = 2$	3	integer
2 * a	a = 3	6	integer
a * 2 + b	a = 1.5 and b = 2	5	integer
a + 2 * b	a = 1.5 and b = 2	5.5	double
(a + b) * c	a = 1, b = 1, and	10	integer
	c = 5		
"Fred" + " Smith"		"Fred Smith"	String
a + " Smith"	a = "Wilma"	"Smith Wilma"	string

- 5. Explain the difference between **declaring** and **initialising** a variable.
 - Declaring is giving a variable a name and a space for memory to store, but not a value.
 - Initializing is giving a variable a name, a memory and a value.
- 6. Explain the term **parameter**. Write some code that demonstrates a simple use of a parameter.
 - Parameter is a variable in coding to pass information between function and method.

- 7. Using an example, describe the term **scope**.
 - Scope can be seen as a concept that determines a variable which can be accessed or referenced outside a method.
- 8. In any procedural language you like, write a function called Average, which accepts an array of integers and returns the average of those integers.



9. In the same language, write the code you would need to call that function and print out the result.



10. To the code from 6, add code to print the message "Double digits" if the average is above Otherwise, print the message "Single digits".

