# **Assignment 2**

Status: Completed

Your identity is visible during marking.

**Deadline:** 17 Sep 2018, 23:55

# Weekly assignment A2

# **Part A**

What type of values are these?

```
1. 3.25 + 4
2. ["abc", 34, 4.34, 23]
3. True
4. "Hello" + "World"
```

# Part B

# **Choose the Data Type**

Choose a suitable data type to represent the following values, justify your selection.

- 1. Month name
- 2. Week number
- 3. Recorded temperatures on different days of a month
- 4. Average temperature in a month

# Part C

# **Tracking Errors**

Point out errors and explain them, if any, in the following program segments without executing them.

```
1.>>> a = 5
>>> b = 'string'
>>> c = 5.9
```

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#### Part D

#### **Write Programs**

1. Write a program which will find and print a list of all such integers which are divisible by 7 but are not multiple of 5 from a list of integers in the range 1000 to 2000 (both included). Solve this exercise using a *for*-loop, and not a list comprehension. Hint: To obtain a list of integers between 1000 and 2000, you can use the built-in range () function, e.g.:

```
a_list = list(range(1000,2001))
```

2. Suppose you are given the following list:

```
a_{i} = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
```

Write a program to compute a list of cubes of the items in the above list using the list comprehension. The output of the program should be:

```
[1, 8, 27, 64, 125, 216, 343, 512, 729, 1000]
```

3. If you are given three sticks, you may or may not be able to arrange them in a triangle. For example, if one of the sticks is 12 inches long and the other two are one inch long, you will not

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be able to get the short sticks to meet in the middle. For any three lengths, there is a simple test to see if it is possible to form a triangle:

If any of the three lengths is greater than the sum of the other two, then you cannot form a triangle. Otherwise, you can. (If the sum of two lengths equals the third, they form what is called a "degenerate" triangle.)

Write a program which takes lengths of three sticks from the keyboard and then prints either "Yes" or "No", depending on whether you can or cannot form a triangle from sticks with the entered lengths.

### **Submission**

For part A, B, and C produce and upload one (pdf or txt) file (containing all parts), and for part D upload the script files (i.e. py files) one for each of the programs. Name the files for Part D like partD 1.py, partD 2.py, and partD 3.py

#### **Best of Luck!**

Hemanth Kumar Battula , 14 Sep 2018 15:37

File name: PartABC.txt (2,1 KB)

Status set to: To be marked

Hemanth Kumar Battula , 14 Sep 2018 15:38

File name: PartD 1.py (159 B)

Status set to: To be marked

Hemanth Kumar Battula , 14 Sep 2018 15:38

File name: PartD 2.py (73 B)

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Status set to: To be marked

### Hemanth Kumar Battula , 14 Sep 2018 15:38

File name: PartD 3.py (433 B)

Status set to: To be marked

### ☐ Chatrine Qwaider , 25 Sep 2018 13:16

Status set to: Completed

Comment: Thanks for well-done work.

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