

Assignment -Data Type and Lists in Python
CYSC 250 Basic of Cybersecurity Programming & Networking
Total Points: 50

Purpose: This assignment provides you with a basic understanding and practical experience of Python.

Requirements & Submission:

1. The answers of this assignment can be submitted *electronically* on the blackboard.
2. Don't forget to write *a question number* corresponding to your answer.
3. You need to include a screenshot of the executed code. Also, the Python code must be submitted in order to get partial credit if there is an error in your code.

Question (1) (10 points) Look at the following assignment statements:

- (a) `value1 = 99`
- (b) `value2 = 45.9`
- (c) `value3 = 7.0`
- (d) `value4 = 7`
- (e) `value5 = 'abc'`

After these statements are executed (using `print()`), **what is the Python data type of the values** referenced by each variable?

Question (2) (5 points) What will be displayed after executing the following python program with these Three lines, and why? Please explain in brief.

```
my_value = 99  
  
my_value = 0  
  
print(my_value)
```

Question (3) (10 points) Write a python program which reads Four numbers as input and calculate the sum total and average of the four numbers. **Print out the total sum, and average of the four numbers.**

Question (4) (25 points) Write a python program to perform the following tasks:

- (a) Create a list, list1 with Five integer numbers.
- (b) Print the elements/items of list1
- (c) Create a second list list2 with Three string elements (for example, city name)
- (d) Concatenate or append the Two lists together.
- (e) Print the final list which should contain the elements of both the lists-list1 and list2.

NOTE: You need to submit the screenshot of the executed code with the output.