

Certificate Programme in Python Programming
Fundamentals of Programming
Assignment 1
(25% of the Total Score)

Instructions

- Please submit your assignment to Moodle on or before the submission deadline set in Moodle.
 - Please submit your answer document named “Assignment 1 Answer_your Full Name” in .docx format and all the Python files in .py format and zip them into a .zip file named “Assignment 1_your Full Name”.
 - For example, if your name is Chan Tai Man, the names of the answer document and zipped file should be “Assignment 1 Answer_Chan Tai Man.docx” and “Assignment 1_Chan Tai Man.zip” respectively.
 - Programming structure, styles and documentation will also be considered in the marking. Marks may be deducted for late submission or inappropriate file formats.
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Question 1 – 5 marks

Create a python file called Ass1_Q1.py and complete the follow task.

Review the following Python programming (assume this program is written in Python 3). Highlight the incorrect parts. And modify them to make the program can run smoothly.

Given Code

```
drink = input("How many you want to buy? ")

if drink <= 0:
    print (Invalid value)
else if (drink > 0 & drink < 10):
    print ("Delivery fee: $50")
else
    print ("Free delivery")
```

Question 2 – 6 marks

Create a python file called Ass1_Q2.py and complete the follow task using appropriate looping.

Ask the user to input a positive integer. Find of the sum of that integer starting from 1 up to the integer input by the user and display the result. Assume the user will only input positive integer for this program.

Sample Output

```
Input an integer: 5
Sum from 1 to 5  = 1 + 2 + 3 + 4 + 5 = 15
```

Question 3 – 7 marks

Create a python file called Ass1_Q3.py and complete the follow task.

Ask the user to input a range of integers. Check against the integers within that range and display all the integers that can be divided by 7. If there is no integer is dividable within the range, a message will be shown.

Sample Output

```
Starting point: 30
Ending point: 50
Numbers that can be divided by 7 between 30 and 50
35 42 49
```

Sample Output

```
Starting point: 1
Ending point: 5
No integers within the range can be divided by 7.
```

Question 4 – 7 marks

Create a python file called Ass1_Q4.py and complete the follow task.

Ask the user to input a string. Count the number of characters of the string excluding the spaces within the string and display the number of characters.

Sample Output

```
Input a string: ABC abcde 1234 * 123 89@
Number of characters (no spaces): 19
```

----- End of Assignment 1 -----