

HIT137

Group Assignment 1 (10% Mark)

Please submit the .py files for question 1 and a Word document for questions 2 and 3, ensuring that each file contains the following information:

Group Name: [Your Group Name]

Group Members:

[Member 1 Name] - [Member 1 ID]

[Member 2 Name] - [Member 2 ID]

[Member 3 Name] - [Member 3 ID]

[Member 4 Name] - [Member 4 ID]

This is a Group Assignment, each group only needs to submit once on the LearnLine. Please ZIP your .py file and word document into one file and submit the ZIP file.

1. Simple Python program

1. Write Python code to solve these two problems. **(4 marks)**

a. Ask the user to input three numbers, and check if these three numbers can form a triangle.

- Need three inputs.
- The output shows whether the result can form a triangle or not.

Examples:

User input 1: 8

User input 2: 7

User input 3: 9

Output: Yes, these three lengths can form a triangle.

User input 1: 1

User input 2: 2

User input 3: 9

Output: NO, these three lengths CANNOT form a triangle.

b. Ask users to input one number, the number will be the size of a square. Using the print function to draw this square.

- Need input size.
- The output will be a single square created by the print function.

Examples:

When size = 1

*

When size = 2

* *
* *

When size = 3

* * *
* * *
* * *

When size = 4

* * * *
* * * *
* * * *
* * * *

2. Using Microsoft Teams to create a group or channel for your project team. Please follow the Teams Setup on the LearnLine, which under **Stage 1: Introduction to Python -> Week 2: Data Types and Expressions -> Week 2 Teams Setup**. Have a screenshot to show every group member is discussing in the Teams. (3 marks)

3. Write a short essay to discuss the benefits of working in groups on programming projects and make a group agreement to show your team's vision and goals for this unit (500-1000 words). (3 marks)