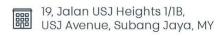


Lab 5 Loops

Instructions

- 1. Answer the below question in the boxes if needed.
- 2. For coding exercises, code on your computer and zip all your code before submission.
- 3. Please submit the assignment through TalentLabs Learning System.







Part 0 Preface

This lab would feel like a bit of brain teasers for people who are using loops for the first time. Some questions might require some time to think through the logic and quite some testing. Be patient and creative! If you are stuck, feel free to ask in office hours and lab sessions.





Part 1 Coding Exercise

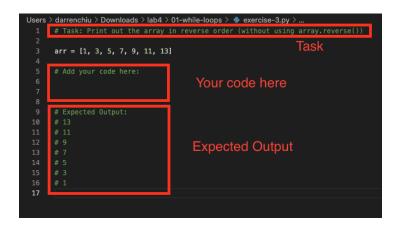
Open the code folder with Visual Studio Code.

You are required to complete or create some functions to fulfil the tasks. Please read the instructions carefully and finish all the tasks.

Make sure you test your code before submission. If you are not sure how to run the code, please check the steps in the previous labs.

Each of the exercise file is composed of the following parts:

- 1. Task exercise specifications
- 2. Your code here the place where you write your code
- 3. Test case a piece of code for you to run and test your function
- 4. Expected output if your code is successful, the console should output with this results



1.1 While Loops (01-while-loops)

You are required to complete all the exercises using "while loops" (including simple while loops). No for loops is allowed.

1.2 For Loops (02-for-loops)

You would find the questions are exactly the same as 1.1 but You are required to complete all the exercises using "for loops" (including simple for loops and for/in loops). No while loops are allowed.

1.3 Freestyle Challenging Questions (03-freestyle)

The questions in this part are challenging questions. They are harder than 1.1 and 1.2. Try your best to solve them using any loops you know. No restrictions for the types of loops to be used.