I2PP4DA

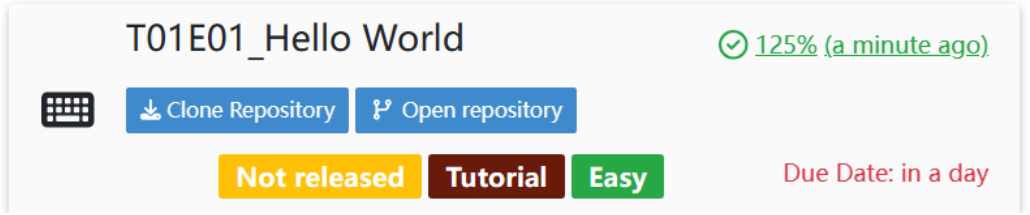
Tutor: Weiyuan Du

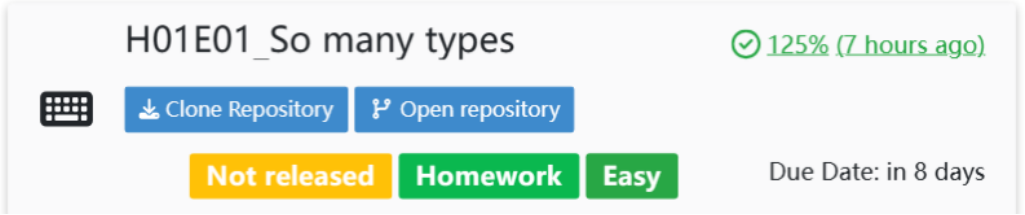
Outline

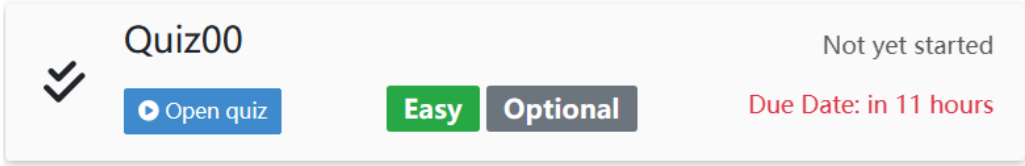
- Control flow
- Loops
- Tutorial Exercises
- Homework

Exercise category

- Tutorial exercise
  - with a Tutorial label
  - 4 points and 1 bonus point = 5 points
- Homework exercise
  - With a Homework label
  - 4 points and 1 bonus point = 5 points
- Quizes
  - Mon 10:15 – 10:20 of the tutorial session







Environment for the lectures

- Anaconda Distribution | Anaconda
- Vscode Visual Studio Code - Code Editing. Redefined
- Pycharm https://www.jetbrains.com/pycharm/download/
- Jupyter notebook Project Jupyter | Home
  - Pip (download for python package)
  - WSL (windows subsystem for Linux)
  - Terminal (Mac os)
  - Git (will be used frequently during the exercises)

A Normal Python program

```
numbers_list = [1, 3, 7, 12]
odd_numbers_list = []

for number in numbers_list:
    if number % 2 != 0:
        odd_numbers_list.append(number)

print(odd_numbers_list)
```

Either from defined variable or list
Here we defined a numbers_list = [1,3,7,12]

Function Based Programming

```
def solution(number_list):
    result = []
    for number in numbers_list:
        if number %2 !=0:
            result.append(number)
    return result
numbers_list = [1,3,7,12]
odd_number_list = solution(numbers_list)
print(odd_number_list)
```

```
[1, 3, 7]
```

Learn by doing!

Any Questions?
Thanks for coming to the tutor session!