While Loop:

```
C: > Users > USER > OneDrive > Documents > AI-Lab-1 > 🕏 LAB 2 > ...
       count = 0
       while (count < 3):
           count = count + 1
  4
           print("Hello Geek")
          OUTPUT
                    DEBUG CONSOLE
PROBLEMS
                                    TERMINAL
                                               PORTS
PS C:\Users\USER> & C:/Users/USER/AppData/Local/Microsoft/WindowsApps
Users/USER/OneDrive/Documents/AI-Lab-1/LAB 2"
Hello Geek
Hello Geek
Hello Geek
PS C:\Users\USER>
```

Single statement while block:

```
C: > Users > USER > OneDrive > Documents > AI-Lab-1 > 💠 LAB 2 > ...
         count = 0
    2
         while (count == 0): print("Hello Geek")
  PROBLEMS OUTPUT DEBUG CONSOLE
                                     TERMINAL
                                                 PORTS
  Hello Geek
  Hello Geek
0 1 0 6
```

for in Loop:

```
C: > Users > USER > OneDrive > Documents > AI-Lab-1 > 🕏 LAB 2 > ...
   print("List Iteration")
  2 1 = ["geeks", "for", "geeks"]
  3 \vee for i in 1:
  4 print(i)
 PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
                                                 PORTS
PS C:\Users\USER> & C:/Users/USER/AppData/Local/Microsoft/
Users/USER/OneDrive/Documents/AI-Lab-1/LAB 2"
List Iteration
geeks
for
geeks
PS C:\Users\USER>
C: > Users > USER > OneDrive > Documents > AI-Lab-1 > 🌞 LAB 2 > ...
      print("\nTuple Iteration")
     t = ("geeks", "for", "geeks")
     for i in t:
          print(i)
PROBLEMS
         OUTPUT DEBUG CONSOLE TERMINAL
                                         PORTS
PS C:\Users\USER> & C:/Users/USER/AppData/Local/Microsoft/WindowsApps/
Users/USER/OneDrive/Documents/AI-Lab-1/LAB 2"
```

Tuple Iteration

PS C:\Users\USER>

geeks for geeks

Iterating by index of sequences:

Loop Control Statements:

```
C: > Users > USER > OneDrive > Documents > AI-Lab-1 > 💠 LAB 2 > ...
       for letter in 'geeksforgeeks':
           if letter == 'e' or letter == 's':
             continue
           print ('Current Letter :'), letter
  4
           var=10
PROBLEMS
           OUTPUT
                    DEBUG CONSOLE
                                    TERMINAL
                                               PORTS
PS C:\Users\USER> & C:/Users/USER/AppData/Local/Microsoft/WindowsApps
Users/USER/OneDrive/Documents/AI-Lab-1/LAB 2"
Current Letter :
Current Letter:
Current Letter :
PS C:\Users\USER>
```

Break Statement:

```
C: > Users > USER > OneDrive > Documents > AI-Lab-1 > ♦ LAB 2 > ...
       for letter in 'geeksforgeeks':
           # break the loop as soon it sees 'e'
           # or 's'
           if letter == 'e' or letter == 's':
               break
  6
           print ('Current Letter :'), letter
PROBLEMS
           OUTPUT
                    DEBUG CONSOLE
                                   TERMINAL
                                              PORTS
PS C:\Users\USER> & C:/Users/USER/AppData/Local/Microsoft/WindowsApps/
Users/USER/OneDrive/Documents/AI-Lab-1/LAB 2"
Current Letter :
PS C:\Users\USER>
```

Creating a Function: (Calling a Function)

```
C: > Users > USER > OneDrive > Documents > AI-Lab-1 >  LAB 2 > ...
    def my_function():
        print("Hello from a function")

        my_function()

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\USER> & C:/Users/USER/AppData/Local/Microsoft/WindowsApps/Users/USER/OneDrive/Documents/AI-Lab-1/LAB 2"
Hello from a function
PS C:\Users\USER>
```

Parameters:

```
C: > Users > USER > OneDrive > Documents > Al-Lab-1 > 🕏 LAB 2 > 🥎 my_function
  1
       def my_function(fname):
          print(fname + " Refsnes")
       my_function("Emil")
       my_function("Tobias")
       my_function("Linus")
PROBLEMS
           OUTPUT DEBUG CONSOLE
                                    TERMINAL
                                              PORTS
PS C:\Users\USER> & C:/Users/USER/AppData/Local/Microsoft/WindowsApps/
Emil Refsnes
Tobias Refsnes
Linus Refsnes
PS C:\Users\USER>
```

Default Parameter Value:

```
C: > Users > USER > OneDrive > Documents > AI-Lab-1 > ♣ LAB 2 > ♦ my_function
       def my function(country = "Norway"): print("I am from " + country)
       my function("Sweden")
       my_function("India")
       my function()
       my_function("Brazil")
PROBLEMS
           OUTPUT DEBUG CONSOLE
                                   TERMINAL
                                             PORTS
PS C:\Users\USER> & C:/Users/USER/AppData/Local/Microsoft/WindowsApps/python3.11.exe "
I am from Sweden
I am from India
I am from Norway
I am from Brazil
PS C:\Users\USER>
```

Passing a List as a Parameter:

```
C: > Users > USER > OneDrive > Documents > Al-Lab-1 > ♣ LAB 2 > ♦ my_function
       def my_function(food):
         for x in food:
  3
          print(x)
       fruits = ["apple", "banana", "cherry"]
       my_function(fruits)
PROBLEMS
           OUTPUT
                    DEBUG CONSOLE
                                   TERMINAL
                                              PORTS
PS C:\Users\USER> & C:/Users/USER/AppData/Local/Microsoft/WindowsApps/python3.11.
apple
banana
cherry
PS C:\Users\USER>
```

Return Values:

Keyword Arguments:

```
C: > Users > USER > OneDrive > Documents > AI-Lab-1 > LAB 2 > my_function

1     def my_function(child3, child2, child1):

2     print("The youngest child is " + child3)

3     my_function(child1 = "Emil", child2 = "Tobias", child3 = "Linus")

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\USER> & C:/Users/USER/AppData/Local/Microsoft/WindowsApps/python3.11.6
The youngest child is Linus
PS C:\Users\USER>
```

Create a Class:

Example:

Create a class named MyClass, with a property named x:

class MyClass: x = 5

Create Object:

Example:

Create an object named p1, and print the value of x:

```
p1 = MyClass() print(p1.x)
```

The init () Function:

```
C: > Users > USER > OneDrive > Documents > AI-Lab-1 > 🕏 LAB 2 > 😭 Person > 🕤
       class Person:
           def __init__(self, name, age):
                self.name = name
               self.age = age
      p1 = Person("John", 36)
       print(p1.name)
       print(p1.age)
PROBLEMS
           OUTPUT
                    DEBUG CONSOLE
                                    TERMINAL
                                              PORTS
PS C:\Users\USER> & C:/Users/USER/AppData/Local/Microsoft/WindowsApps
John
PS C:\Users\USER>
```

Object Methods: