

# Assignment 6.2

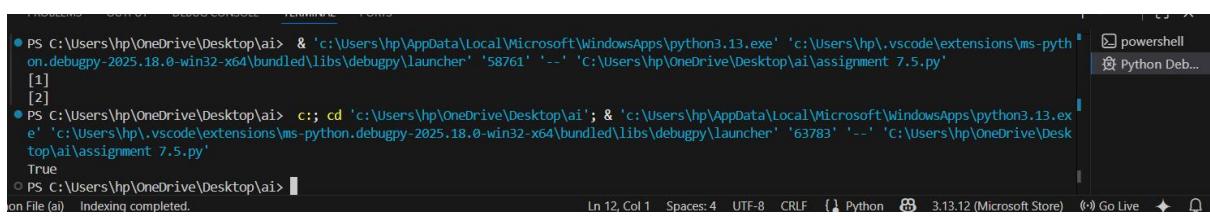
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Roll Number: 2303A51220

Batch - 04

## AI Assisted Coding

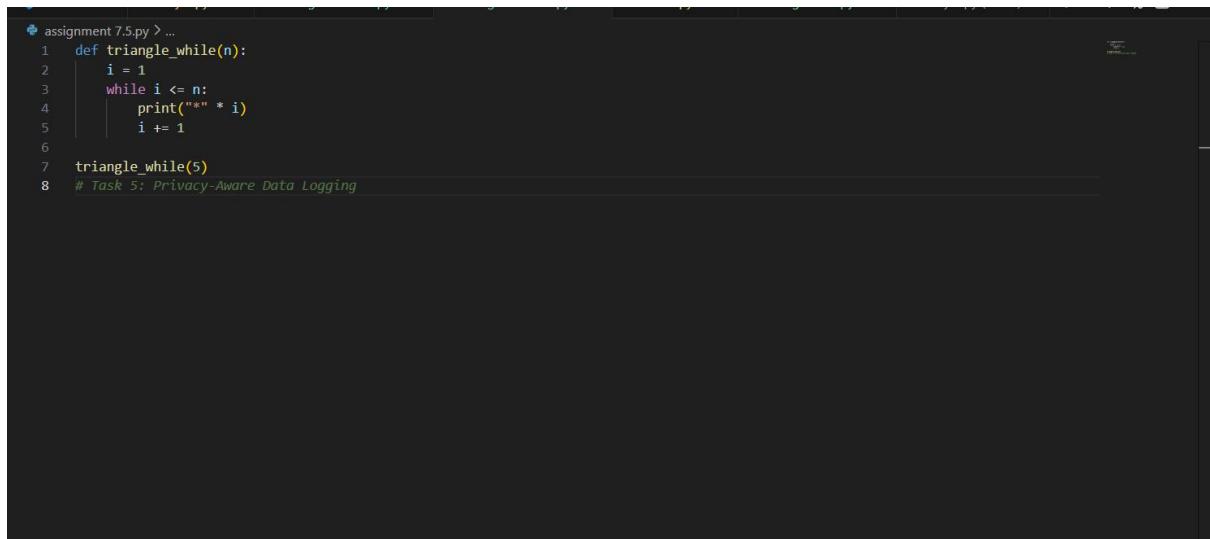
```
assignment.py > Student > _init_
1  class Student:
2      def __init__(self, name, roll_no, marks):
3          self.name = name
4          self.roll_no = roll_no
5          self.marks = marks
6
7      def is_pass(self):
8          return self.marks >= 40
9 s1=Student("John", 101, 85)
10 print(s1.is_pass())
```



The terminal window shows the following command and its output:

```
PS C:\Users\hp\OneDrive\Desktop\ai> & 'c:\Users\hp\AppData\Local\Microsoft\WindowsApps\python3.13.exe' 'c:\Users\hp\.vscode\extensions\ms-python-on.debugpy-2025.18.0-win32-x64\bundled\libs\debugpy\launcher' '58761' '--' 'C:\Users\hp\OneDrive\Desktop\ai\assignment 7.5.py'
[1]
[2]
PS C:\Users\hp\OneDrive\Desktop\ai> c;; cd 'c:\Users\hp\OneDrive\Desktop\ai'; & 'c:\Users\hp\AppData\Local\Microsoft\WindowsApps\python3.13.exe' 'c:\Users\hp\vscode\extensions\ms-python.debugpy-2025.18.0-win32-x64\bundled\libs\debugpy\launcher' '63783' '--' 'C:\Users\hp\OneDrive\Desktop\ai\assignment 7.5.py'
True
PS C:\Users\hp\OneDrive\Desktop\ai>
```

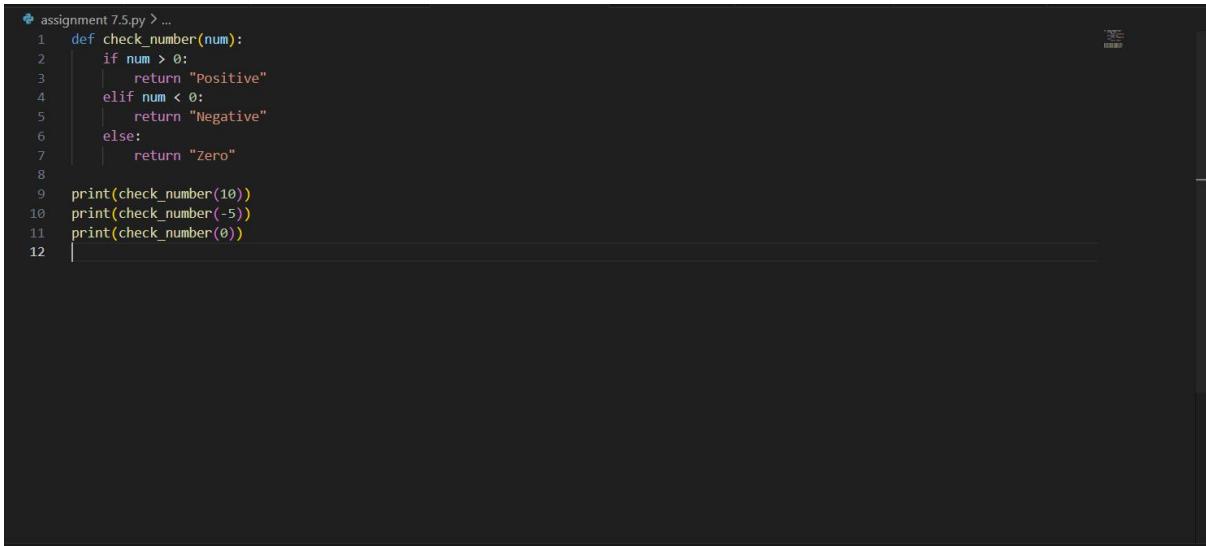
## Task 2



```
assignment 7.5.py > ...
1  def triangle_while(n):
2      i = 1
3      while i <= n:
4          print("*" * i)
5          i += 1
6
7  triangle_while(5)
8  # Task 5: Privacy-Aware Data Logging
```

```
● PS C:\Users\hp\OneDrive\Desktop\ai> c:; cd 'c:\Users\hp\OneDrive\Desktop\ai'; & 'c:\Users\hp\AppData\Local\Microsoft\VSCode\extensions\ms-python.debugpy-2025.18.0-win32-x64\bundled\libs\debugpy\launcher' '49562\top\ai\assignment 7.5.py'
*
**
***
*****
*****
○ PS C:\Users\hp\OneDrive\Desktop\ai> 
```

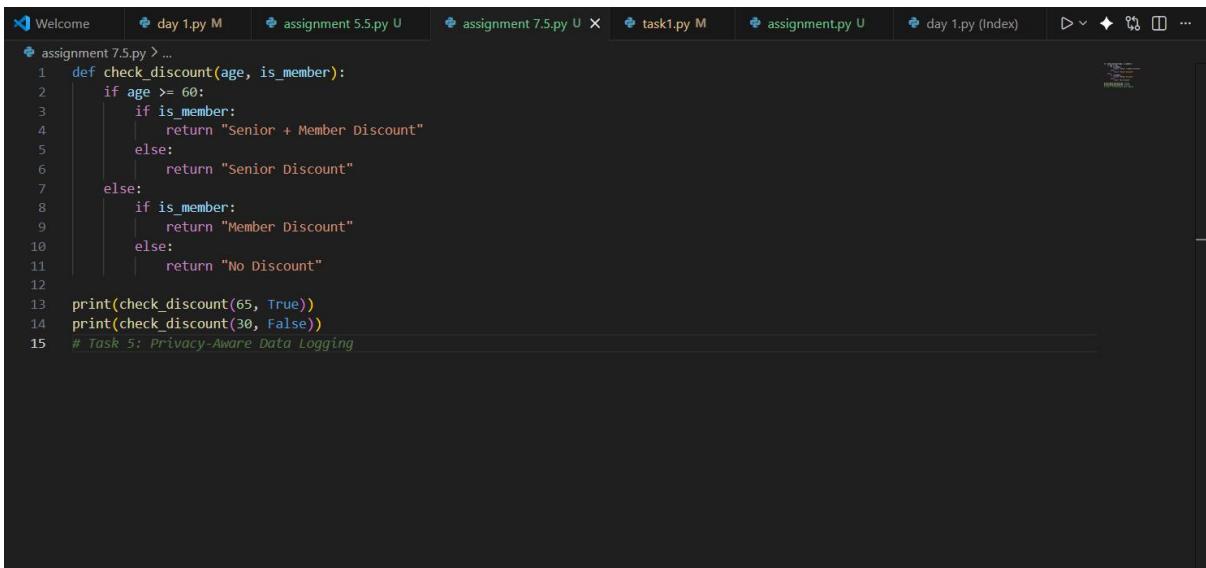
## Task 3



```
assignment 7.5.py > ...
1 def check_number(num):
2     if num > 0:
3         return "Positive"
4     elif num < 0:
5         return "Negative"
6     else:
7         return "Zero"
8
9 print(check_number(10))
10 print(check_number(-5))
11 print(check_number(0))
12 | 
```

```
● PS C:\Users\hp\OneDrive\Desktop\ai> c:; cd 'c:\Users\hp\OneDrive\Desktop\ai'; & 'c:\Users\hp\AppData\Local\Microsoft\VSCode\extensions\ms-python.debugpy-2025.18.0-win32-x64\bundled\libs\debugpy\launcher' '5394\top\ai\assignment 7.5.py'
Positive
Negative
Zero
○ PS C:\Users\hp\OneDrive\Desktop\ai> 
```

## Task 4:



```
Welcome day 1.py M assignment 5.5.py U assignment 7.5.py U X task1.py M assignment.py U day 1.py (Index) ▷ v ♦ ⓘ ... assignment 7.5.py > ...
1 def check_discount(age, is_member):
2     if age >= 60:
3         if is_member:
4             return "Senior + Member Discount"
5         else:
6             return "Senior Discount"
7     else:
8         if is_member:
9             return "Member Discount"
10        else:
11            return "No Discount"
12
13 print(check_discount(65, True))
14 print(check_discount(30, False))
15 # Task 5: Privacy-Aware Data Logging 
```

```
● PS C:\Users\hp\OneDrive\Desktop\ai> c;; cd 'c:\Users\hp\OneDrive\Desktop\ai'; & 'c:\Users\hp\AppData\Local\Microsoft\WindowsApps\python3.13.exe' 'c:\Users\hp\vscode\extensions\ms-python.debugpy-2025.18.0-win32-x64\bundled\libs\debugpy\launcher' '56979' '--' 'C:\Users\hp\OneDrive\Desktop\ai\assignment 7.5.py'
Senior + Member Discount
No Discount
○ PS C:\Users\hp\OneDrive\Desktop\ai> []
On File (ai) Indexing completed.
```

## Task 5

```
assignment 7.5.py > ...
1 import math
2
3 class Circle:
4     def __init__(self, radius):
5         self.radius = radius
6
7     def area(self):
8         return math.pi * self.radius * self.radius
9
10    def circumference(self):
11        return 2 * math.pi * self.radius
12
13 c = Circle(7)
14 print(c.area())
15 print(c.circumference())
16 # Task 5: Privacy-Aware Data Logging
```

```
● PS C:\Users\hp\OneDrive\Desktop\ai> c;; cd 'c:\Users\hp\OneDrive\Desktop\ai'; & 'c:\Users\hp\AppData\Local\Microsoft\WindowsApps\python3.13.exe' 'c:\Users\hp\vscode\extensions\ms-python.debugpy-2025.18.0-win32-x64\bundled\libs\debugpy\launcher' '59204' '--' 'C:\Users\hp\OneDrive\Desktop\ai\assignment 7.5.py'
153.93804002589985
43.98297150257104
○ PS C:\Users\hp\OneDrive\Desktop\ai> []
On File (ai) Indexing completed.
```