

# Assignment 6.2

**Name:** Thalla Sreeja

**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())
```

```
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>
on File (ai) Indexing completed. Ln 12, Col 1 Spaces: 4 UTF-8 CRLF Python 3.13.12 (Microsoft Store) Go Live
```

## 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\OneDrive\OneDrive.exe' 'c:\Users\hp\.vscode\extensions\ms-python.debugpy-2025.18.0-win32-x64\bundled\libs\debugpy\launcher' '49562' 'c:\Users\hp\OneDrive\Desktop\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\OneDrive\OneDrive.exe' 'c:\Users\hp\.vscode\extensions\ms-python.debugpy-2025.18.0-win32-x64\bundled\libs\debugpy\launcher' '5394' 'c:\Users\hp\OneDrive\Desktop\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) ▶ ◀ 🔍 📄 ...
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>
```

## 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' '59284' '--' 'C:\Users\hp\OneDrive\Desktop\ai\assignment 7.5.py'
153.93804002589985
43.982297150257104
PS C:\Users\hp\OneDrive\Desktop\ai>
```