

AI Assisted Coding

Assignment - 6

K.VAMSHIDHAR || 2303A510H7 || Batch:- 8

Task Description #1: Classes (Student Class)

Scenario

You are developing a simple student information management module.

Task

- Use an AI tool (GitHub Copilot / Cursor AI / Gemini) to complete a Student class.
- The class should include attributes such as name, roll number, and branch.
- Add a method `display_details()` to print student information.
- Execute the code and verify the output.
- Analyze the code generated by the AI tool for correctness and clarity.

Code:

```
LAB 6.3.py X
LAB 6.3.py > ...
1  # assume you are a developer working on creating a student information module.
2  # Your task is to implement the following functionality:
3  # create a student class with attributes
4  # name:String
5  # rollNumber: unique integer
6  # branch : string
7  # create a method to display_details to print student information in a proper manner
8  # so i want the expected output
9  # A py class with a __init__ and display_details method and aslo a sample obj creation and
10 # output displayed on console
11 class Student:
12     def __init__(self, name: str, roll_number: int, branch: str):
13         self.name = name
14         self.roll_number = roll_number
15         self.branch = branch
16
17     def display_details(self):
18         print(f"Student Name: {self.name}")
19         print(f"Roll Number: {self.roll_number}")
20         print(f"Branch: {self.branch}")
21
22 # Sample object creation
23 student1 = Student("vamshidhar", 107, "Computer Science")
24 # Displaying student details
25 student1.display_details()
26 # Expected Output:
27 # Student Name: vamshidhar
28 # Roll Number: 107
29 # Branch: Computer Science
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```

Task Description #2: Loops (Multiples of a Number)

Scenario

You are writing a utility function to display multiples of a given number.

Task

- Prompt the AI tool to generate a function that prints the first 10 multiples of a given number using a loop.
- Analyze the generated loop logic.
- Ask the AI to generate the same functionality using another controlled looping structure (e.g., while instead of for).

Code:

```
LAB 6.3.py X
LAB 6.3.py > ...
30 # Assume you are a developer developing a mode to make the multiples of a number by using
31 # python so your task it to:
32 # create a function that takes an interger from user and print the multiples of that number upto
33 # 10 multiples using a loop
34 # for better understanding i want to use the following program with 2 types of loops for loop
35 # and while loop and compare the both code
36 # Using for loop
37 def multiples_for_loop():
38     number = int(input("Enter an integer: "))
39     print(f"Multiples of {number} using for loop:")
40     for i in range(1, 11):
41         print(f"{number} x {i} = {number * i}")
42 # Using while loop
43 def multiples_while_loop():
44     number = int(input("Enter an integer: "))
45     print(f"Multiples of {number} using while loop:")
46     i = 1
47     while i <= 10:
48         print(f"{number} x {i} = {number * i}")
49         i += 1
50 # Comparing both functions
51 print("Using for loop:")
52 multiples_for_loop()
53 print("\nUsing while loop:")
54 multiples_while_loop()
55
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS

```
Using for loop:
Enter an integer: 3
Multiples of 3 using for loop:
3 x 1 = 3
3 x 2 = 6
3 x 3 = 9
3 x 4 = 12
3 x 5 = 15
3 x 6 = 18
3 x 7 = 21
3 x 8 = 24
3 x 9 = 27
3 x 10 = 30

Using while loop:
Enter an integer: 5
Multiples of 5 using while loop:
5 x 1 = 5
```

Task Description #3: Conditional Statements (Age Classification)

Scenario

You are building a basic classification system based on age.

Task

- Ask the AI tool to generate nested if-elif-else conditional statements to classify age groups (e.g., child, teenager, adult, senior).
- Analyze the generated conditions and logic.
- Ask the AI to generate the same classification using alternative conditional structures (e.g., simplified conditions or dictionary-based logic).

Code:

```
55
56 # assume you are building a simple python module to classify the ages of people into different
57 # categories based on their age.
58 # using conditionals statements we need to classify the ages into child, teenager, adult, and senior
59 # citizen.
60 def classify_age(age):
61     if age < 0:
62         return "Invalid age"
63     elif age <= 12:
64         return "Child"
65     elif age <= 19:
66         return "Teenager"
67     elif age <= 59:
68         return "Adult"
69     else:
70         return "Senior Citizen"
71 # Sample age classifications
72 ages = [5, 15, 30, 70, -1]
73 for age in ages:
74     category = classify_age(age)
75     print(f"Age: {age} - Category: {category}")
76 # Expected Output:
77 # Age: 5 - Category: Child
78 # Age: 15 - Category: Teenager
79 # Age: 30 - Category: Adult
80 # Age: 70 - Category: Senior Citizen
81 # Age: -1 - Category: Invalid age
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS

```
PS C:\Users\komma\Desktop\3rd YEAR\AI-AC> & "C:/Program Files/Python312/python.exe" "c:/Users/komma/Desktop
Age: 5 - Category: Child
Age: 15 - Category: Teenager
Age: 30 - Category: Adult
Age: 70 - Category: Senior Citizen
Age: -1 - Category: Invalid age
PS C:\Users\komma\Desktop\3rd YEAR\AI-AC>
```

Task Description #4: For and While Loops (Sum of First n Numbers)

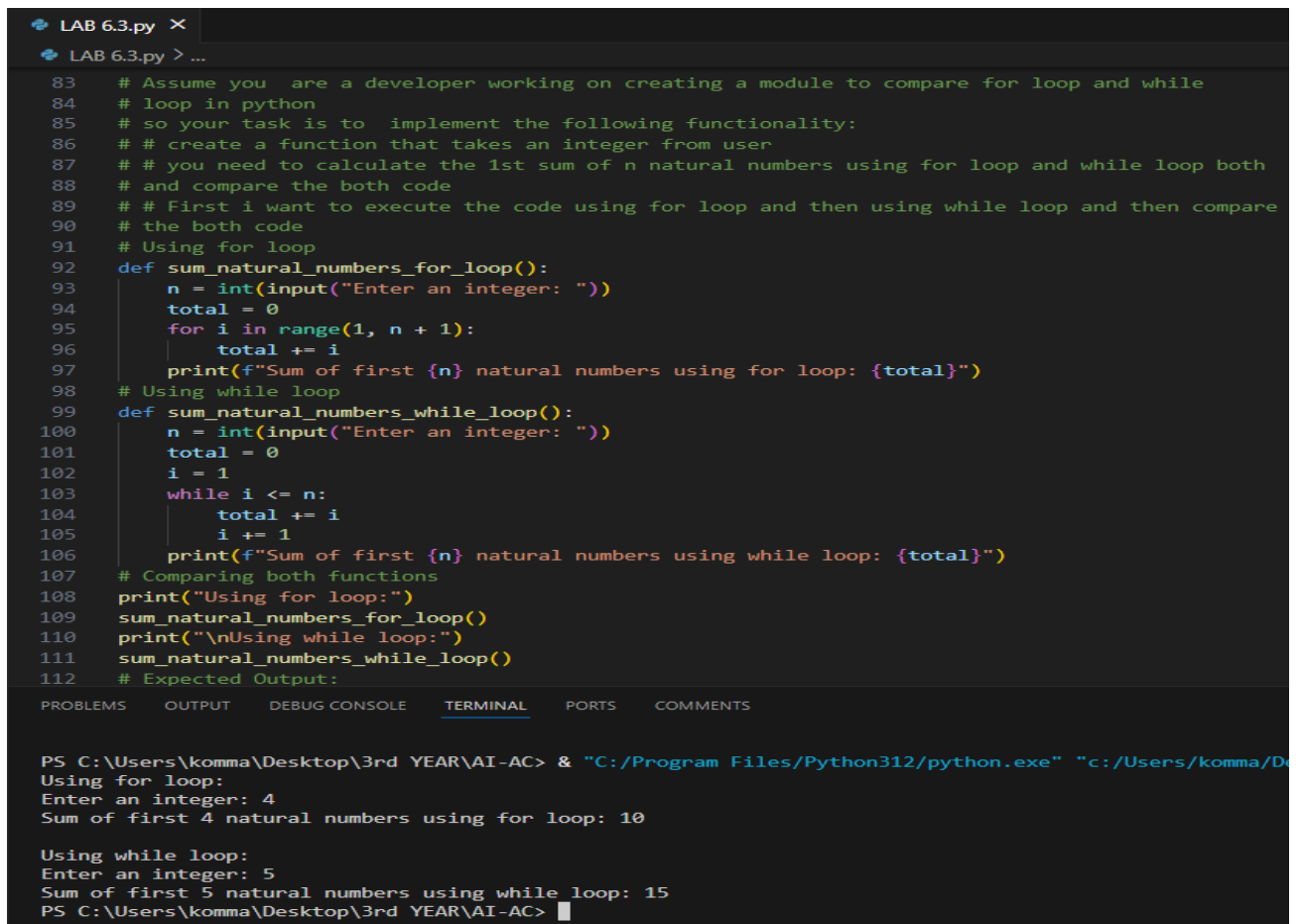
Scenario

You need to calculate the sum of the first n natural numbers.

Task

- Use AI assistance to generate a `sum_to_n()` function using a for loop.
- Analyze the generated code.
- Ask the AI to suggest an alternative implementation using a while loop or a mathematical formula.

Code:



```

83 # Assume you are a developer working on creating a module to compare for loop and while
84 # loop in python
85 # so your task is to implement the following functionality:
86 # # create a function that takes an integer from user
87 # # you need to calculate the 1st sum of n natural numbers using for loop and while loop both
88 # and compare the both code
89 # # First i want to execute the code using for loop and then using while loop and then compare
90 # the both code
91 # Using for loop
92 def sum_natural_numbers_for_loop():
93     n = int(input("Enter an integer: "))
94     total = 0
95     for i in range(1, n + 1):
96         total += i
97     print(f"Sum of first {n} natural numbers using for loop: {total}")
98 # Using while loop
99 def sum_natural_numbers_while_loop():
100     n = int(input("Enter an integer: "))
101     total = 0
102     i = 1
103     while i <= n:
104         total += i
105         i += 1
106     print(f"Sum of first {n} natural numbers using while loop: {total}")
107 # Comparing both functions
108 print("Using for loop:")
109 sum_natural_numbers_for_loop()
110 print("\nUsing while loop:")
111 sum_natural_numbers_while_loop()
112 # Expected Output:

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS

```

PS C:\Users\komma\Desktop\3rd YEAR\AI-AC> & "C:/Program Files/Python312/python.exe" "c:/Users/komma/D
Using for loop:
Enter an integer: 4
Sum of first 4 natural numbers using for loop: 10

Using while loop:
Enter an integer: 5
Sum of first 5 natural numbers using while loop: 15
PS C:\Users\komma\Desktop\3rd YEAR\AI-AC>

```

Task Description #5: Classes (Bank Account Class)

Scenario

You are designing a basic banking application.

Task

- Use AI tools to generate a Bank Account class with methods such as `deposit()`, `withdraw()`, and `check_balance()`.
- Analyze the AI-generated class structure and logic.

- Add meaningful comments and explain the working of the code.

Code:

```
LAB 6.3.py X
LAB 6.3.py >...
120 # Act as a developer creating a module that your are developing a banking application.
121 # Your task is to implement the following functionality:
122 # create a basic function that such as deposit() withdraw() and check balance().
123 # also add the step by step explanation of the code
124 class BankAccount:
125     def __init__(self, account_holder: str, initial_balance: float = 0.0):
126         # Initialize the bank account with the account holder's name and an optional initial balance
127         self.account_holder = account_holder
128         self.balance = initial_balance
129
130     def deposit(self, amount: float):
131         # Deposit a specified amount into the bank account
132         if amount > 0:
133             self.balance += amount
134             print(f"Deposited {amount:.2f}. New balance: {self.balance:.2f}")
135         else:
136             print("Deposit amount must be positive.")
137
138     def withdraw(self, amount: float):
139         # Withdraw a specified amount from the bank account if sufficient balance is available
140         if amount > self.balance:
141             print("Insufficient funds for withdrawal.")
142         elif amount <= 0:
143             print("Withdrawal amount must be positive.")
144         else:
145             self.balance -= amount
146             print(f"Withdrew {amount:.2f}. New balance: {self.balance:.2f}")
147
148     def check_balance(self):
149         # Check and return the current balance of the bank account
150         print(f"Current balance for {self.account_holder}: {self.balance:.2f}")
151
152 # Sample usage of the BankAccount class
153 account = BankAccount("John Doe", 1000.0)
154 account.check_balance() # Check initial balance
155 account.deposit(500.0) # Deposit money
156 account.withdraw(200.0) # Withdraw money
157 account.check_balance() # Check final balance
158
159 PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS
160 PS C:\Users\komma\Desktop\3rd YEAR\AI-AC> & "C:/Program Files/Python312/python.exe" "c:/Users/komma/Desktop/
161 Current balance for John Doe: 1000.00
162 Deposited 500.00. New balance: 1500.00
163 Withdrew 200.00. New balance: 1300.00
164 Current balance for John Doe: 1300.00
165 PS C:\Users\komma\Desktop\3rd YEAR\AI-AC>
```