SR UNIVERSITY

School of Computer Science and Artificial Intelligence

Lab Assignment # 10.2

Program	**: B. Tech (CSE)**
Specialization	**: -**
Course Title	**: AI Assisted Coding**
Course Code	**: 23CS002PC304**
Semester	**II**
Academic Session	**: 2025-2026**
Name of Student	**: P.Eshwar**
Enrollment No.	**: 2403A51L26**
Batch No.	**51**
Date	**: 06/02/26**

Submission Starts here

Screenshots:

Task Description -1Task:(Error Detection and Correction)

Prompt:

Use AI to analyze a Python script and correct all syntax and logical errors.

Sample Input Code:

```
def calculate_total(nums)
sum = 0
for n in nums
sum += n
return total
```

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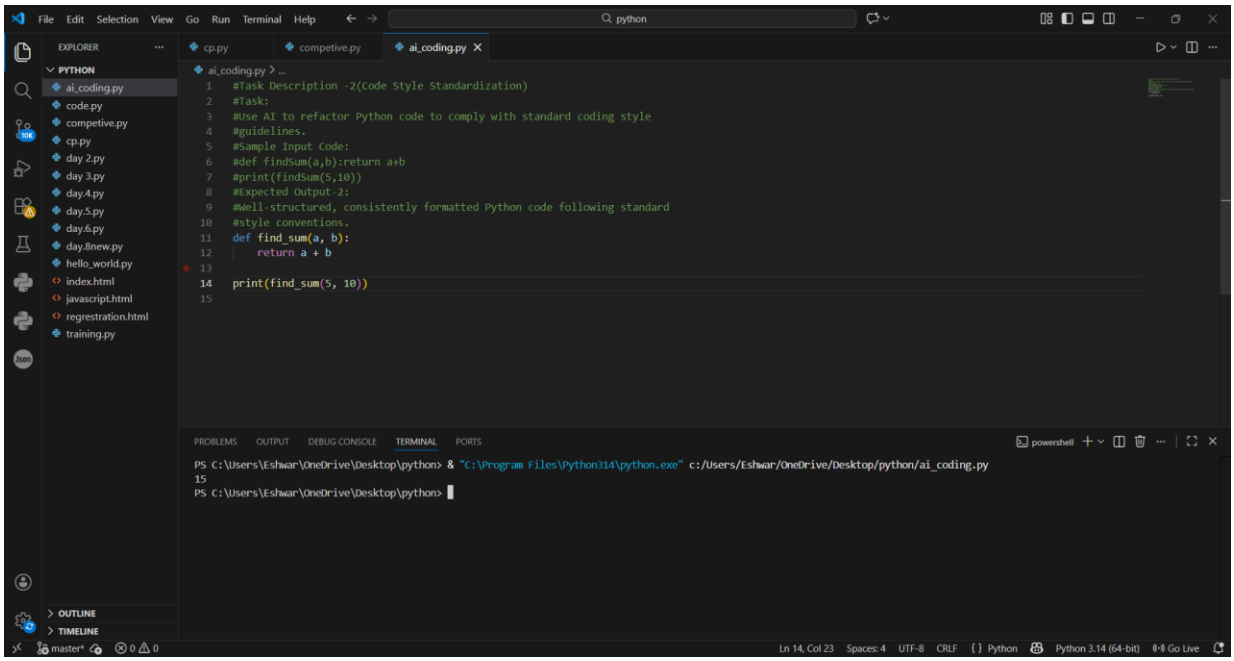

Task Description -2(Code Style Standardization**)**

Prompt:

Use AI to refactor Python code to comply with standard coding style guidelines.

Sample Input Code:

def findSum(a,b):return a+b

print(findSum(5,10))

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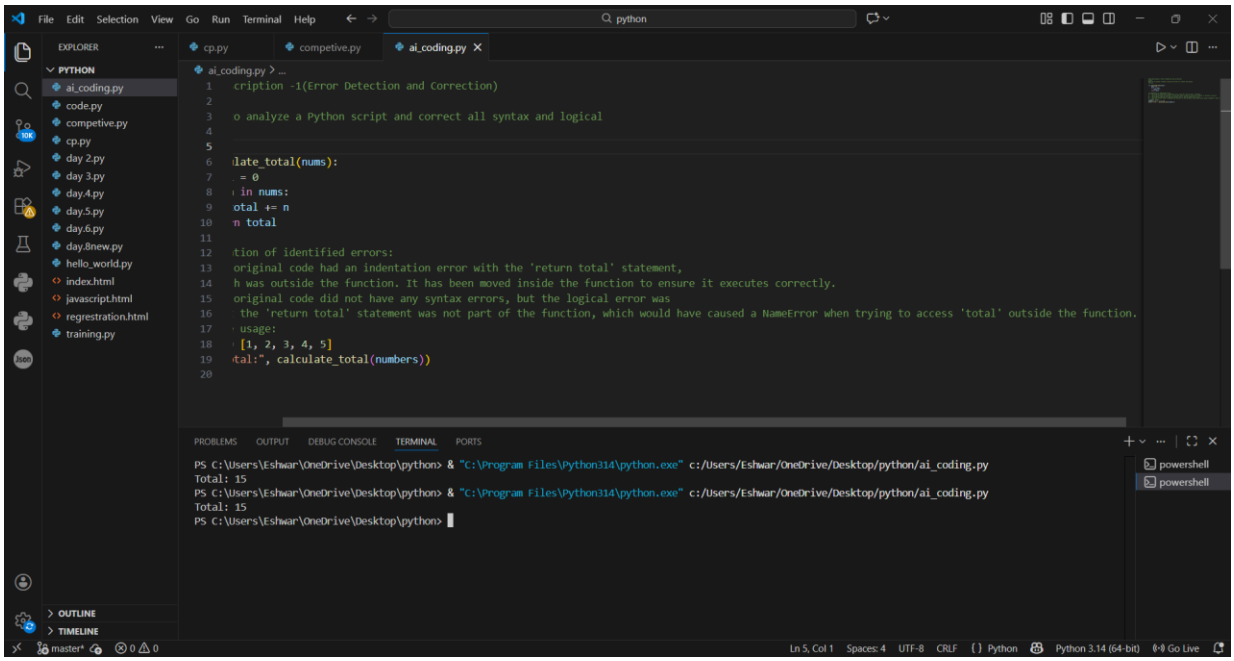


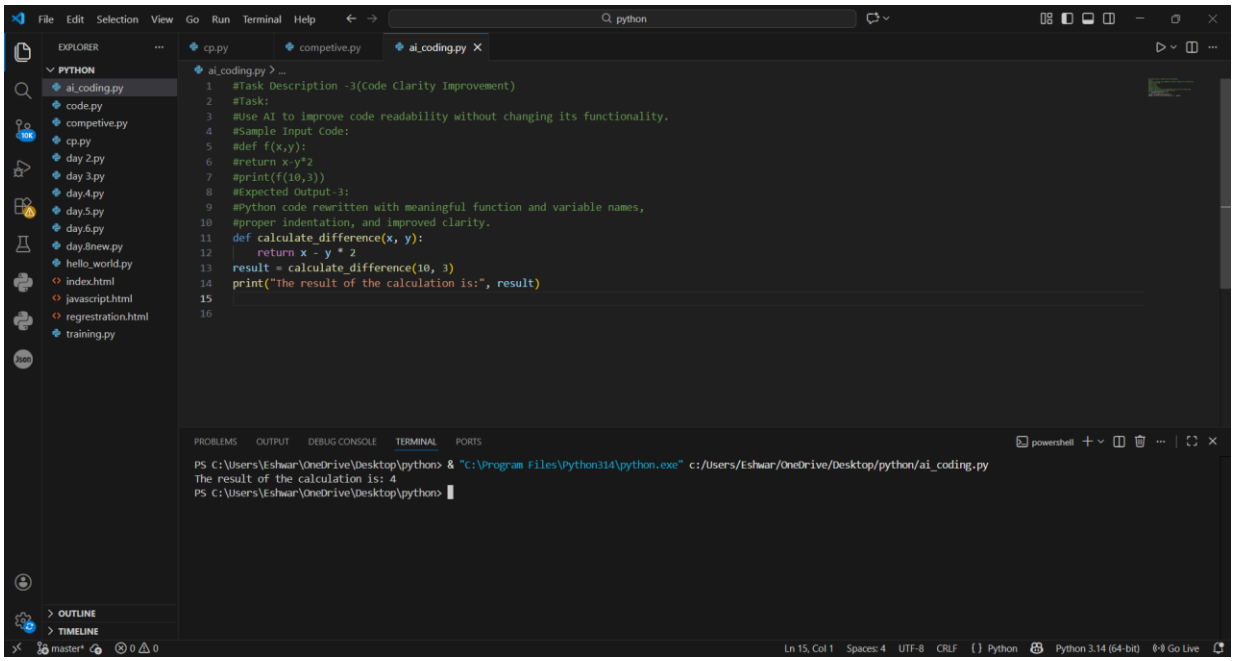
Task Description -3(Code Clarity Improvement)

Prompt:

Use AI to improve code readability without changing its functionality.

Sample Input Code:

```
def f(x,y):
return x-y*2
print(f(10,3))
```



Task Description -4(Structural Refactoring)

prompt:

Use AI to refactor repetitive code into reusable functions.

Sample Input Code:

print("Hello Ram")

print("Hello Sita")

print("Hello Ravi")

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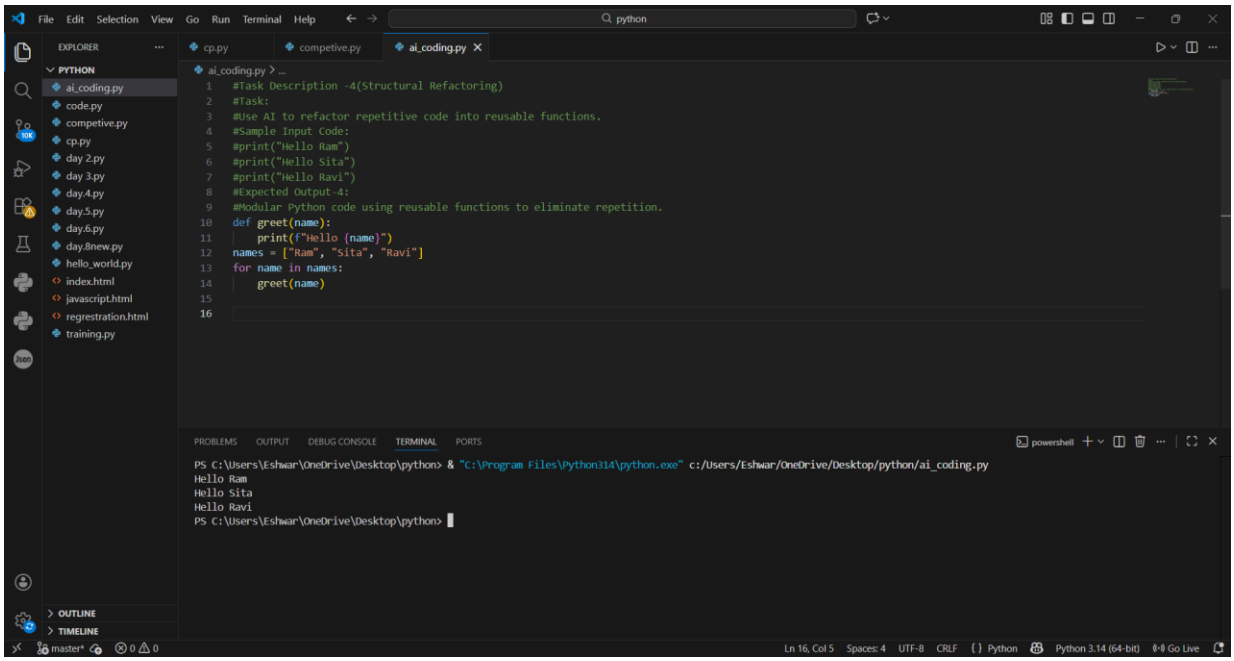

Task Description -5(Efficiency Enhancement)

Prompt:

Use AI to optimize Python code for better performance.

Sample Input Code:

numbers = [ ]

for i in range(1, 500000):

numbers.append(i * i)

print(len(numbers))

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