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School of Computer Science and Artificial Intelligence

Lab Assignment # 7.2

Program	: B. Tech (CSE)
Specialization	
Course Title	: Al Assisted Coding
Course Code	: 23CS002PC304
Semester	11
Academic Session	: 2025-2026
Name of Student	:.P.ESHWAR
Enrollment No.	: 2403A51L26
Batch No.	51
Date	: 30/01/26

Submission Starts here

Screenshots:

Task 1 — **Runtime Error Due to Invalid Input Type**

The issue is fixed by converting the input to a numeric type using float0 and handling invalid input with try-except

(Buggy Code):

```
num =
input("Enter a
number: ")

result = num +
10

print(result)
```

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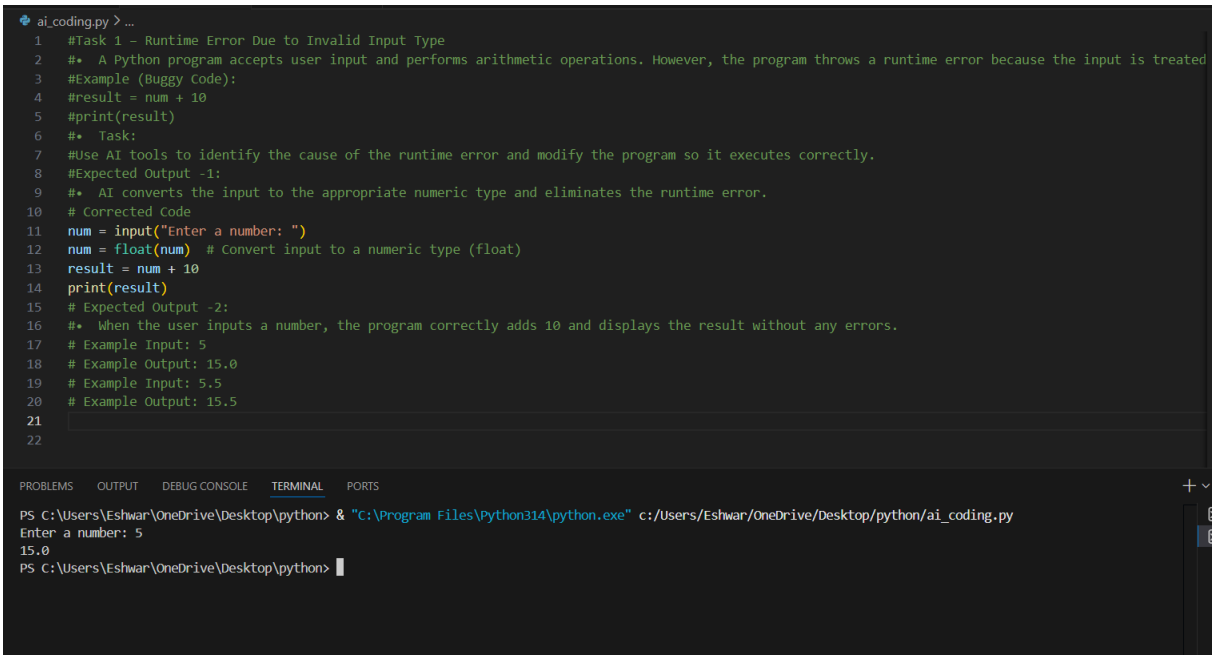


Task 2 - Incorrect Function Return Value

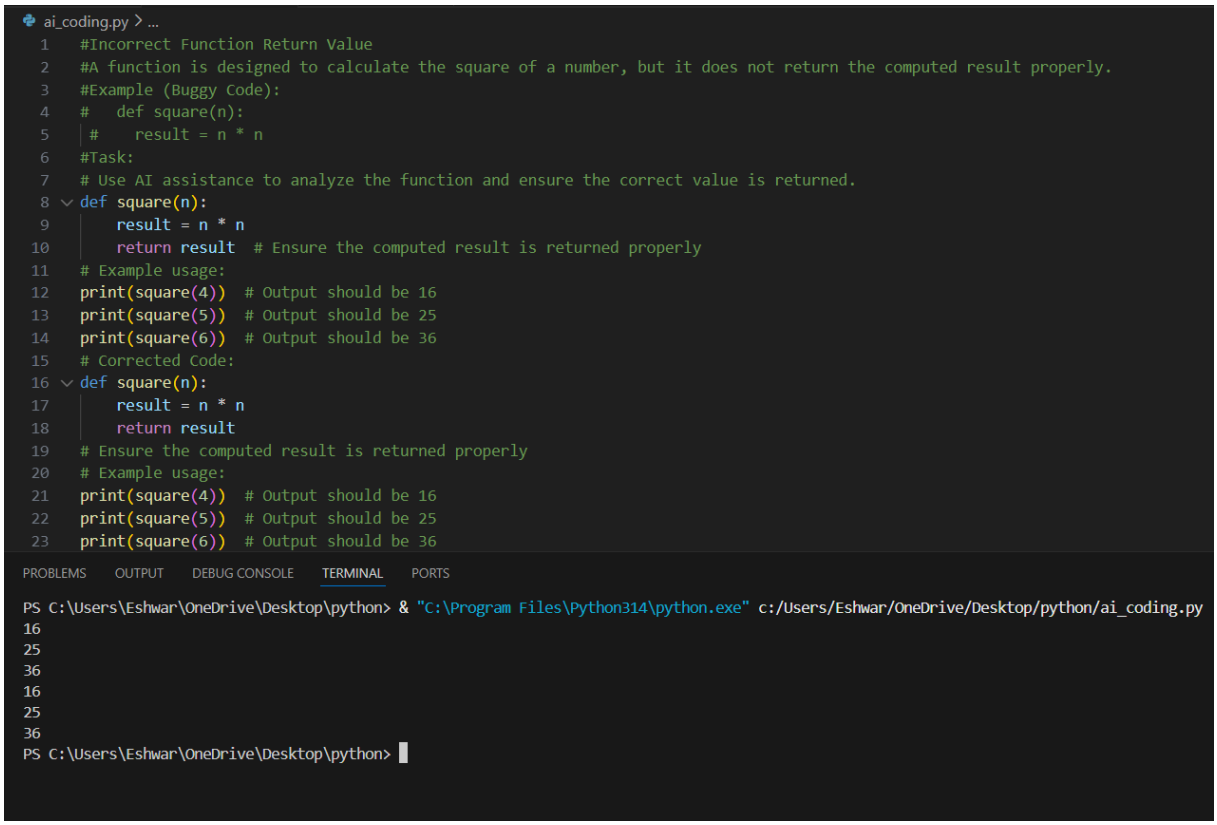
A function is designed to calculate the square of a number, but it does not return the computed result properly.

Example (Buggy Code):

```
def square(n):
  result = n * n
```

Task:

Use AI assistance to analyze the function and ensure the correct value is returned.



Task 3- – IndexError in List Traversal

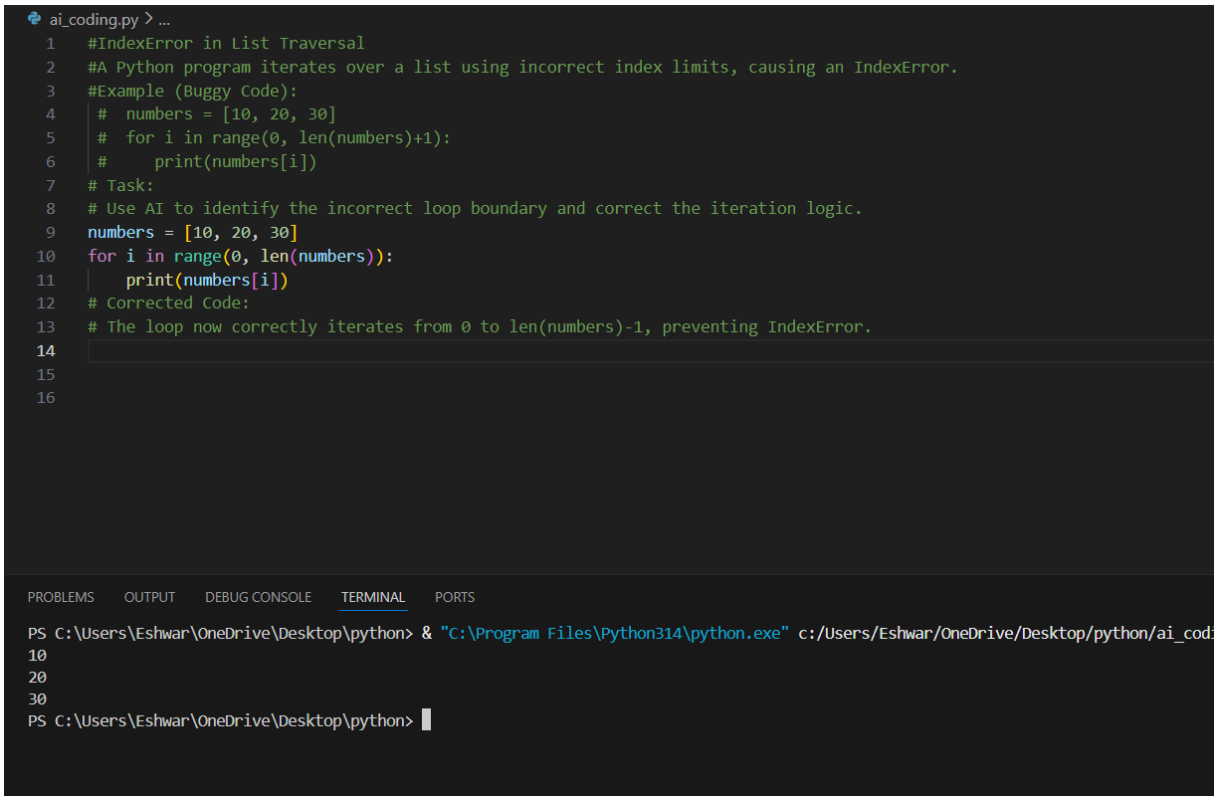
A Python program iterates over a list using incorrect index limits, causing an IndexError.

Example (Buggy Code):

```
numbers = [10, 20, 30]
for i in range(0, len(numbers)+1):
    print(numbers[i])
```

Task:

Use AI to identify the incorrect loop boundary and correct the iteration logic.



Task 4 – Uninitialized Variable Usage

A program uses a variable in a calculation before assigning it any value.

Example (Buggy Code):

```
if True:
    pass
print(total)
```

Task:

Use AI tools to detect the uninitialized variable and correct the program.

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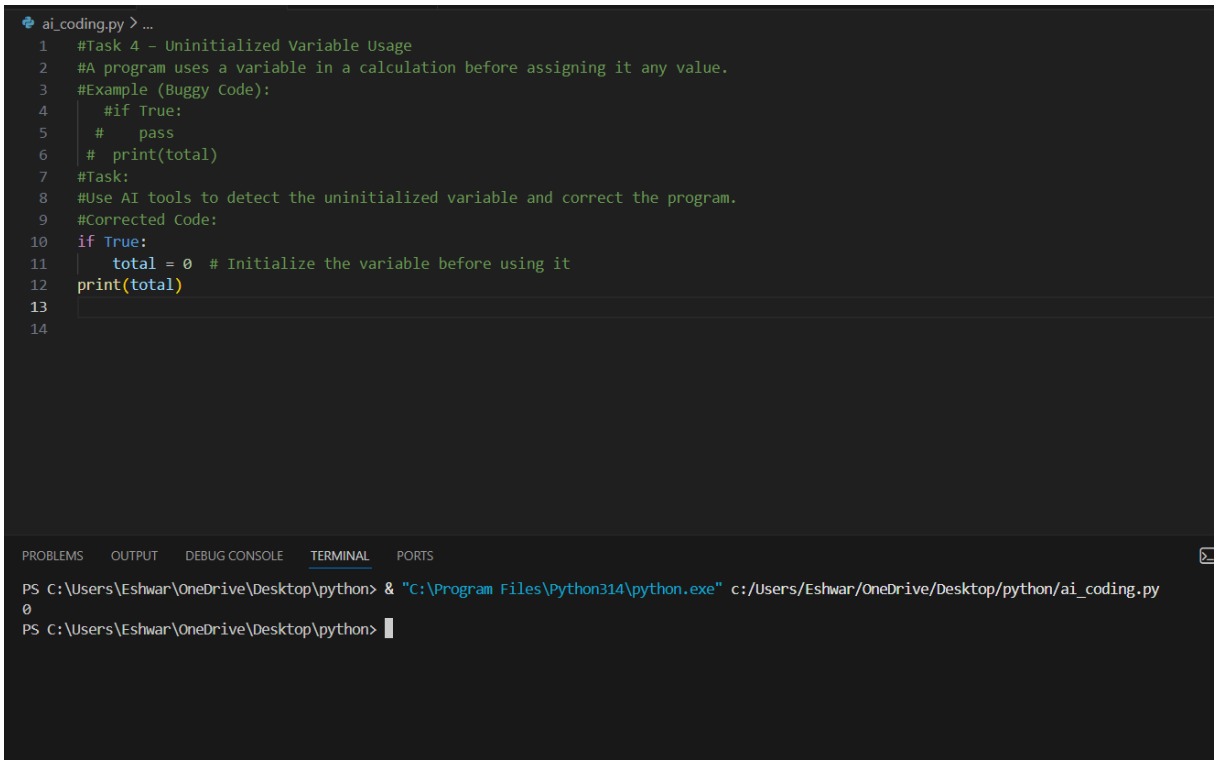

Task 5 – Logical Error in Student Grading System

A grading program assigns incorrect grades due to improper conditional logic.

Example (Buggy Code):

```
marks = 85
if marks >= 90:
    grade = "A"
elif marks >= 80:
    grade = "C"
else:
    grade = "B"
print(grade)
```

Task:

Use AI to analyze the grading conditions and correct the logical flow.

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