SR UNIVERSITY

School of Computer Science and Artificial Intelligence

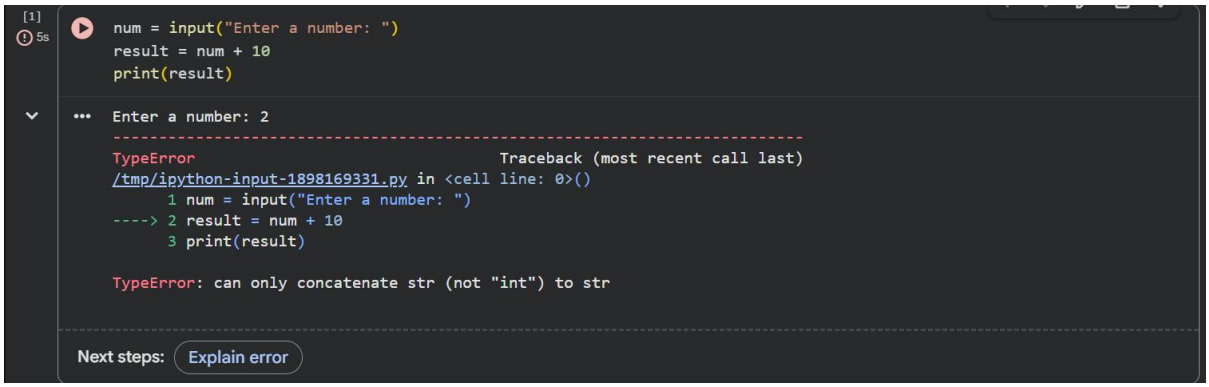
Lab Assignment # 7.2

Program	**: B. Tech (CSE)**
Specialization	**: -**
Course Title	**: AI Assisted Coding**
Course Code	**: 23CS002PC304**
Semester	**: II**
Academic Session	**: 2025-2026**
Name of Student	**: I.Sathwik Rajeshwara Chary**
Enrollment No.	**: 2403A51L03**
Batch No.	**: 51**
Date	**: 30/01/26**

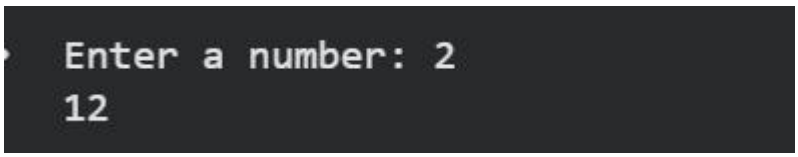
Submission Starts here

Screenshots:
Task 1 – Runtime Error Due to Invalid Input Type

(Buggy Code):
```
num = input("Enter a number: ")
result = num + 10
print(result)
```



Output:



Task 2 – Incorrect Function Return Value

(Buggy Code):
def square(n):
result = n * n

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

  File "/tmp/ipython-input-3910404483.py", line 2
    result = n * n
    ^
IndentationError: expected an indented block after function definition on line 1

Next steps: Explain error
```

Output:

```
Gemini
def square(n):
-result = n * n
+    result = n * n
```

```
[10]
0s
def square(n):
    result = n * n
```

Task 3 – IndexError in List Traversal

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

```
[11]
0s
numbers = [10, 20, 30]
for i in range(0, len(numbers)+1):
print(numbers[i])

  File "/tmp/ipython-input-726334973.py", line 3
    print(numbers[i])
    ^
IndentationError: expected an indented block after 'for' statement on line 2

Next steps: Explain error
```

Output:

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

```
10
20
30
```

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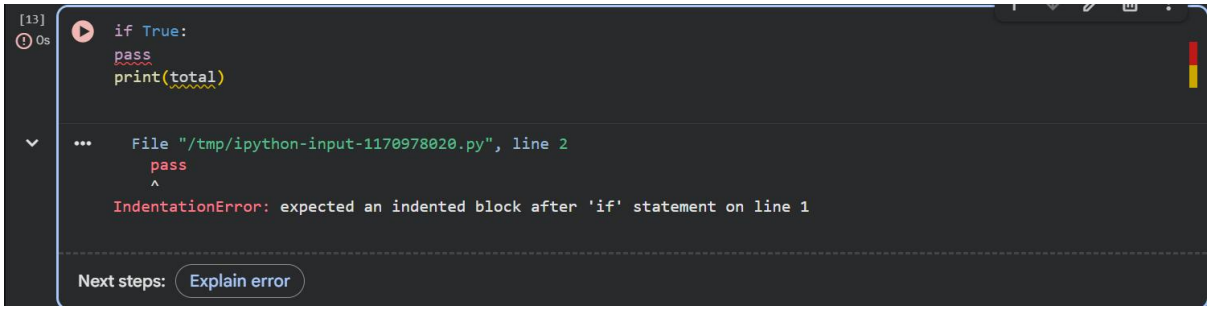
Task 4 – Uninitialized Variable Usage

(Buggy Code):
if True:
pass
print(total)



Output:

Task 5 – Logical Error in Student Grading System

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

```
[16]
0s
marks = 85
if marks >= 90:
grade = "A"
elif marks >= 80:
grade = "C"
else:
grade = "B"
print(grade)

  File "/tmp/ipython-input-2691675298.py", line 3
    grade = "A"
    ^
IndentationError: expected an indented block after 'if' statement on line 2

Next steps: Explain error
```

Output:

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

C
```