SR UNIVERSITY

School of Computer Science and Artificial Intelligence

Lab Assignment # 7.2

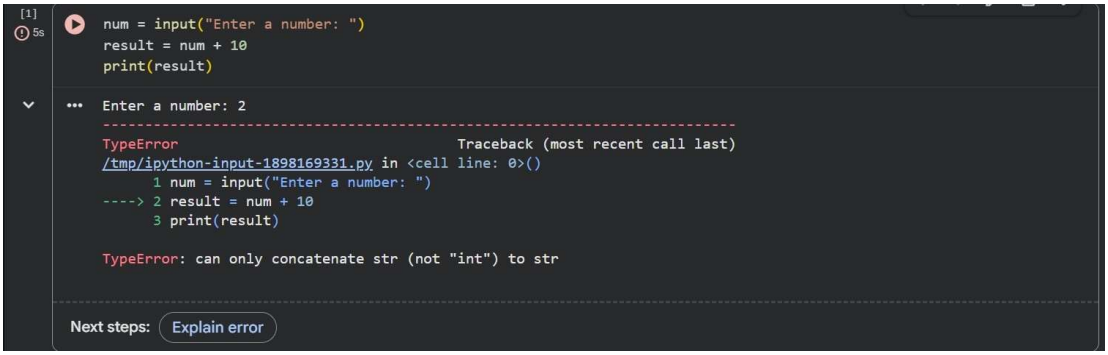
Submission Starts here

Program	: B. Tech (CSE)
Specialization	: -
Course Title	: AI Assisted Coding
Course Code	: 23CS002PC304
Semester	: II
Academic Session	: 2025-2026
Name of Student	: B. sai charan
Enrollment No.	: 2203A51104
Batch No.	: 52
Date	: 30/01/26

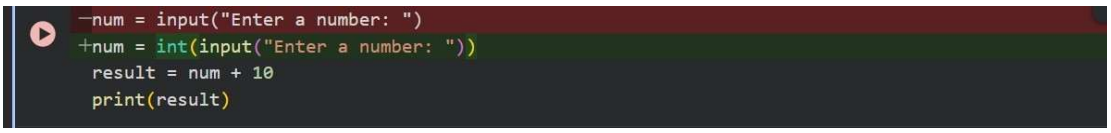
Screenshots:

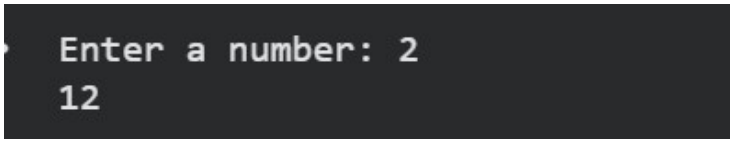
Task 1 – Runtime Error Due to Invalid Input Type

(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
```

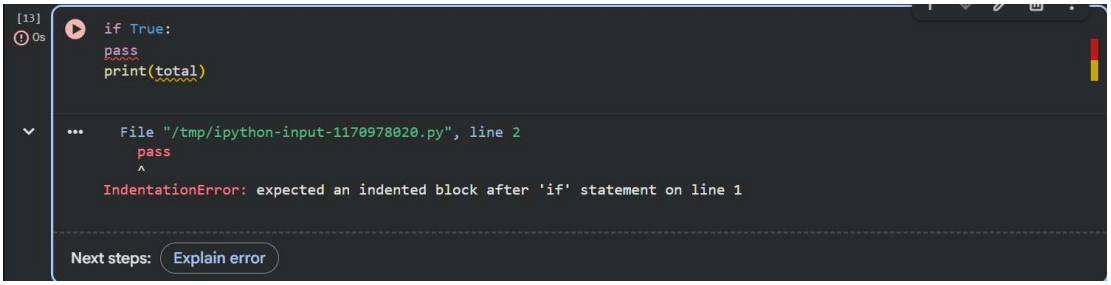
Output:

```
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
```

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