SR UNIVERSITY

## School of Computer Science and Artificial Intelligence

# Lab Assignment # 7.2

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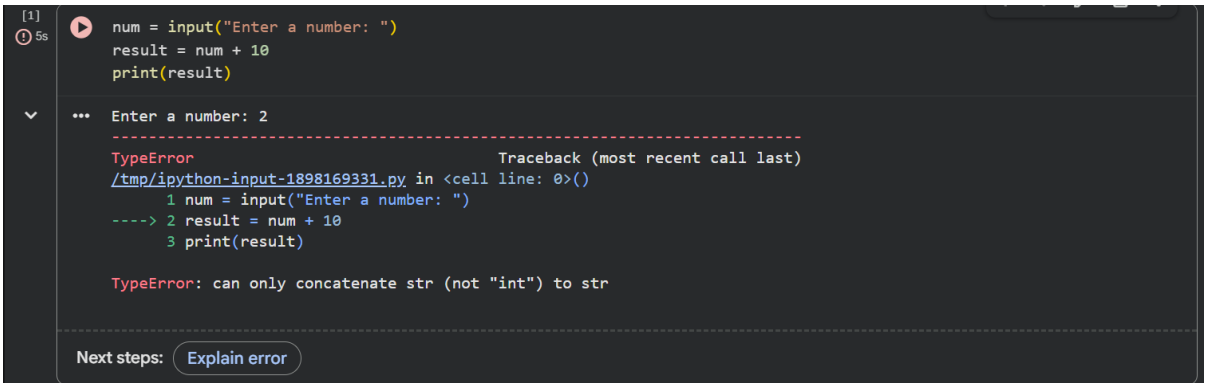
|---|---|
| **Program** | **: B. Tech (CSE)** |
| **Specialization** | **: -** |
| **Course Title** | **: AI Assisted Coding** |
| **Course Code** | **: 23CS002PC304** |
| **Semester** | **: II** |
| **Academic Session** | **: 2025-2026** |
| **Name of Student** | **: J harshith yadav** |
| **Enrollment No.** | **: 2403A51L49** |
| **Batch No.** | **: 52** |
| **Date** | **: 30/01/26** |

## Submission Starts here

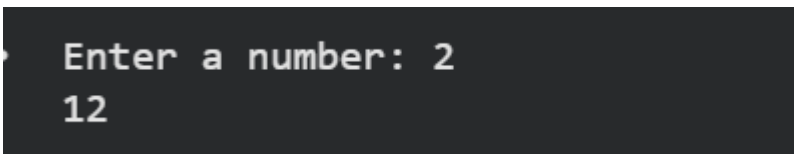
**Screenshots:**
**Task 1 – Runtime Error Due to Invalid Input Type**

**(Buggy Code):**

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




Output:

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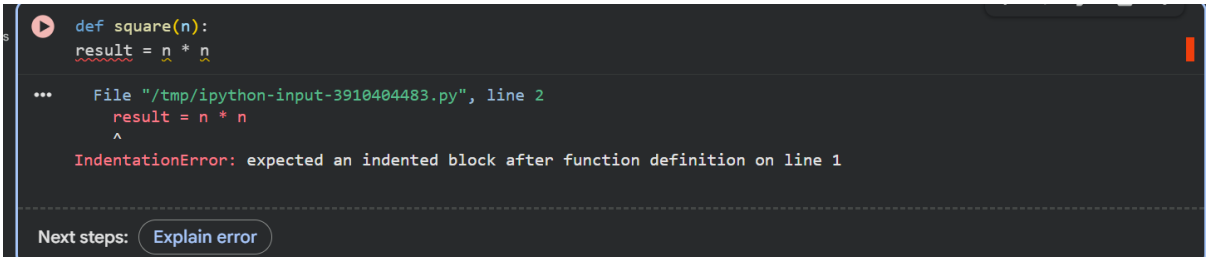
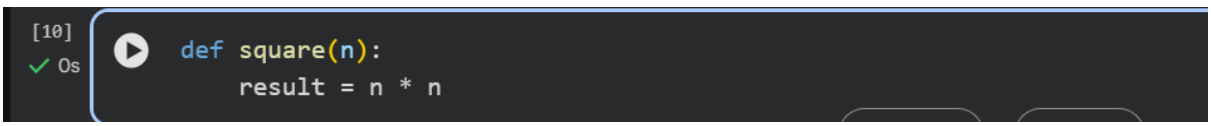
Task 2 – Incorrect Function Return Value

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



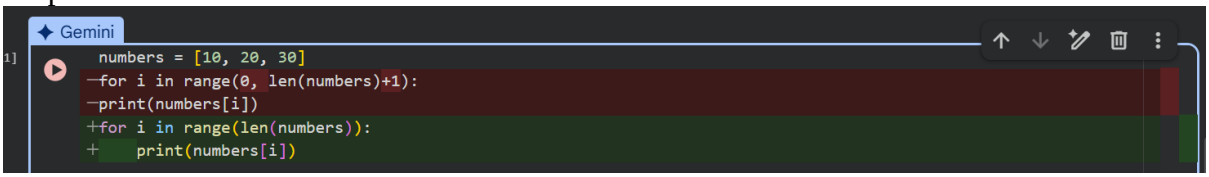

Output:


Task 3 – IndexError in List Traversal

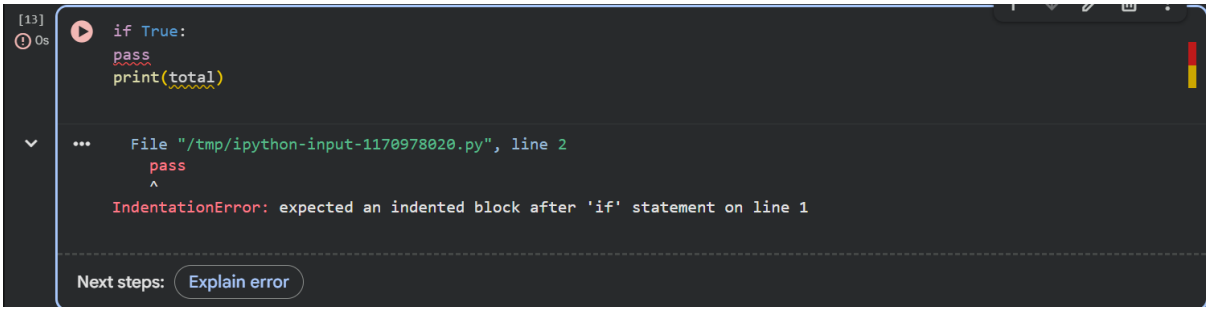
(Buggy Code):
numbers = [10, 20, 30]
for i in range(0, len(numbers)+1):
print(numbers[i])


Output:




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
```