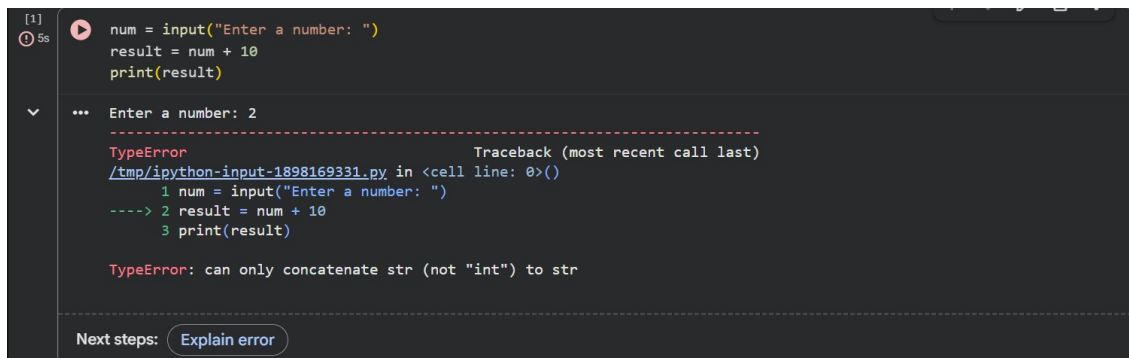


**School of Computer Science and Artificial Intelligence****Lab Assignment # 7.2**

**Program** : B. Tech (CSE)  
**Specialization** : -  
**Course Title** : AI Assisted Coding  
**Course Code** : 23CS002PC304  
**Semester** : II  
**Academic Session** : 2025-2026  
**Name of Student** : Vemula Rikith  
**Enrollment No.** : 2403A51L35  
**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)
```



```
[1] 5s num = input("Enter a number: ")
result = num + 10
print(result)

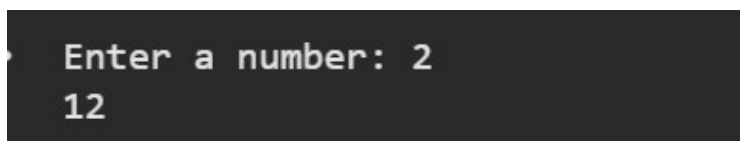
*** Enter a number: 2
-----
TypeError                                 Traceback (most recent call last)
/tmp/ipython-input-1898169331.py in <cell line: 0>()
      1 num = input("Enter a number: ")
----> 2 result = num + 10
      3 print(result)

TypeError: can only concatenate str (not "int") to str

Next steps: Explain error
```

**Output:**

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



```
Enter a number: 2
12
```

## 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:

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

```
[10] 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] 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:

```
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
```

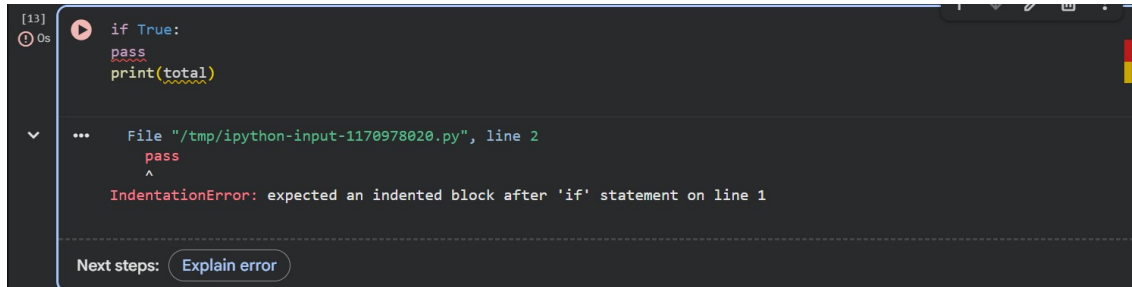
## Task 4 – Uninitialized Variable Usage

(Buggy Code):

```
if True:
```

```
pass
```

```
print(total)
```



The screenshot shows a Jupyter Notebook cell with the following code:

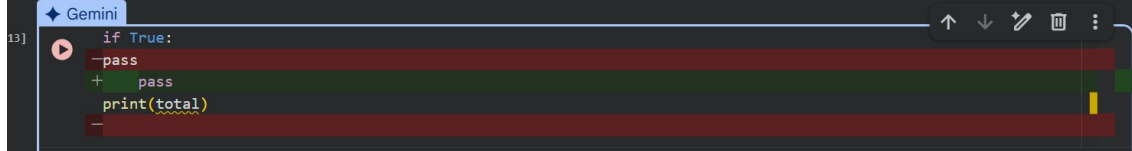
```
[13] In [13]: if True:
            pass
            print(total)
```

The code is highlighted in yellow. Below the code, an error message is displayed:

```
... File "/tmp/ipython-input-1170978020.py", line 2
      pass
      ^
IndentationError: expected an indented block after 'if' statement on line 1
```

At the bottom, there is a button labeled "Next steps: Explain error".

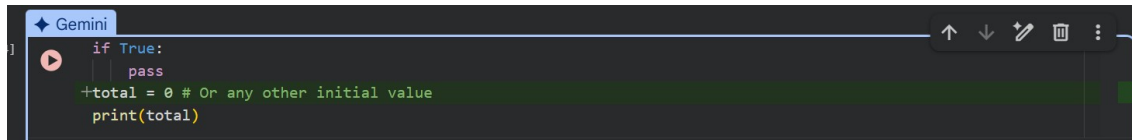
Output:



The screenshot shows a Jupyter Notebook cell with the following code:

```
[13] In [13]: if True:
            -pass
            + pass
            print(total)
```

The code is highlighted in green. The cell is titled "Gemini".



The screenshot shows a Jupyter Notebook cell with the following code:

```
[13] In [13]: if True:
            pass
            +total = 0 # Or any other initial value
            print(total)
```

The code is highlighted in green. The cell is titled "Gemini".



The screenshot shows the output of the corrected code, which is an empty cell with the text "0".

## 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