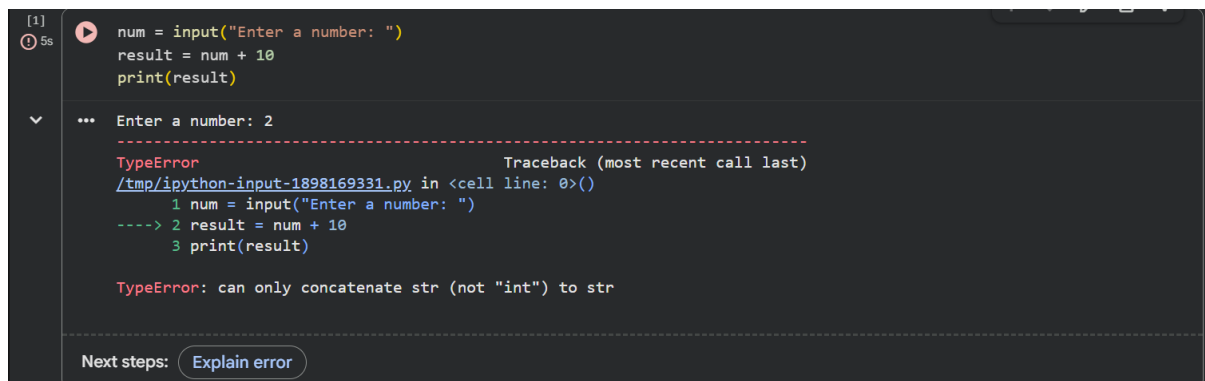


School of Computer Science and Artificial Intelligence**Lab Assignment # 7.2**

Program	: B. Tech (CSE)
Specialization	: -
Course Title	: AI Assisted Coding
Course Code	: 23CS002PC304
Semester	: II
Academic Session	: 2025-2026
Name of Student	: G Mani prasad
Enrollment No.	: 2403A51L48
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

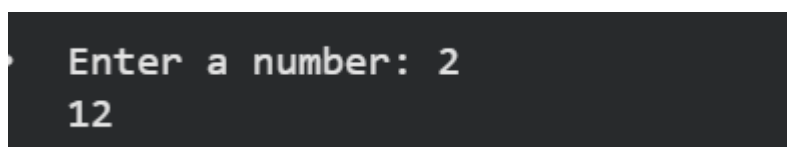
-----
TypeError                                Traceback (most recent call last)
/tmp/ipython-input-1898169331.py in <cell line: 0>()
      1 num = input("Enter a number: ")
----> 2 result = num + 10
      3 print(result)

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)
```

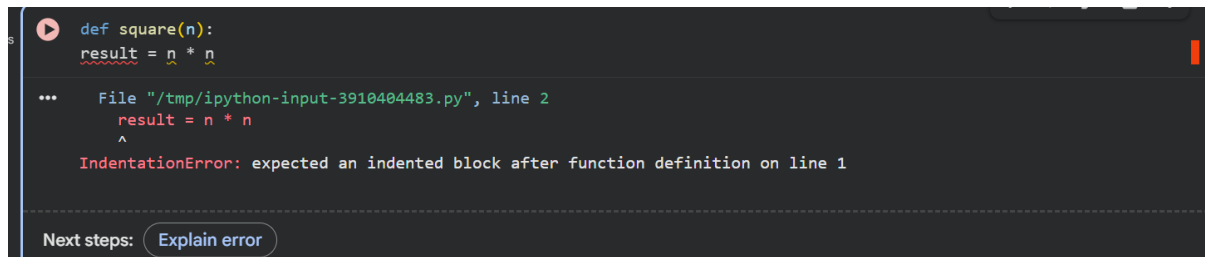


```
Enter a number: 2
12
```

Task 2 – Incorrect Function Return Value

(Buggy Code):

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

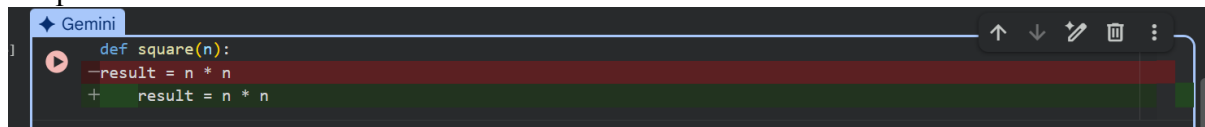


```
def square(n):
result = n * n
```

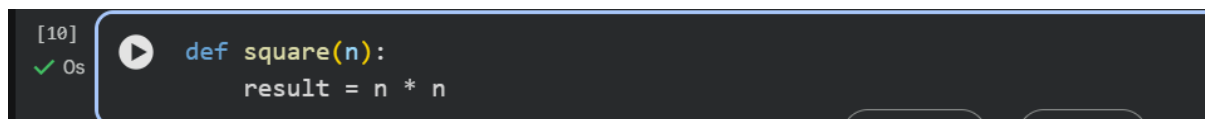
File "/tmp/ipython-input-3910404483.py", line 2
`result = n * n`
^
IndentationError: expected an indented block after function definition on line 1

Next steps: [Explain error](#)

Output:



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

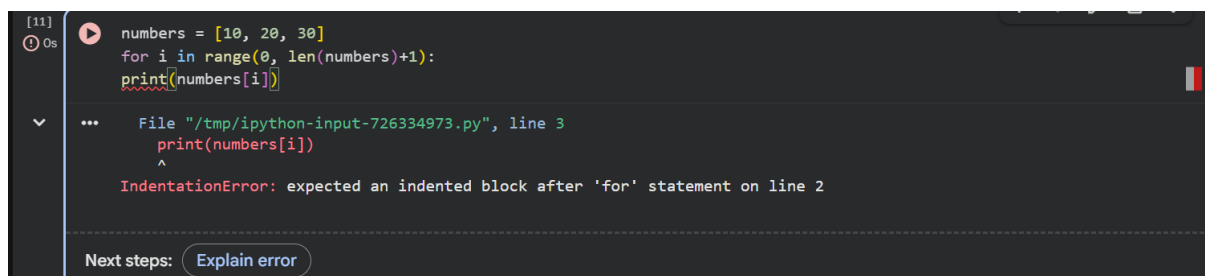


```
def square(n):
result = n * n
```

Task 3 – IndexError in List Traversal

(Buggy Code):

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



```
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])
```

```

... 10
    20
    30

```

Task 4 – Uninitialized Variable Usage

(Buggy Code):

```
if True:
```

```
    pass
```

```
print(total)
```

```

[13] 0s if True:
      pass
      print(total)

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

Next steps: Explain error

```

Output:

```

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

```

```

[1] Gemini
if True:
    pass
+ total = 0 # Or any other initial value
print(total)

```

```

... 0

```

Task 5 – Logical Error in Student Grading System

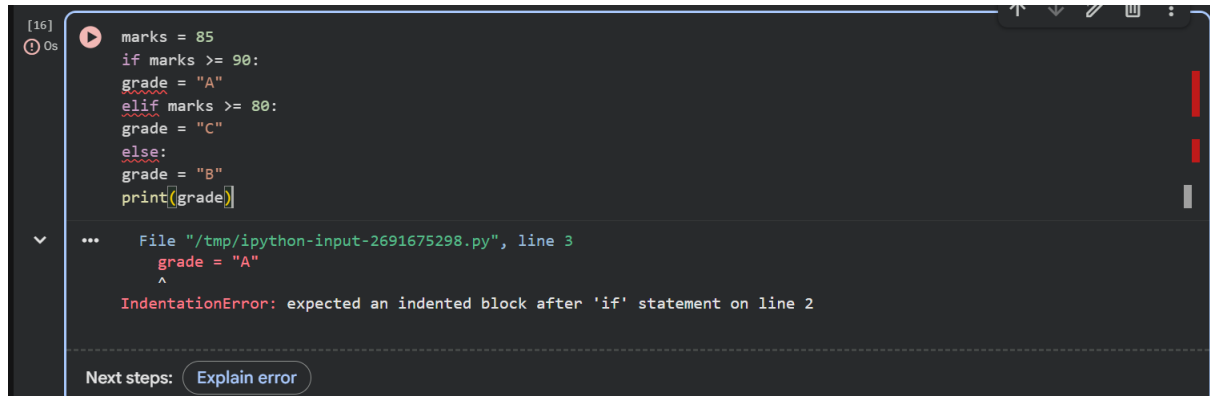
(Buggy Code):

```
marks = 85
```

```
if marks >= 90:
```

```
    grade = "A"
```

```
elif marks >= 80:
    grade = "C"
else:
    grade = "B"
print(grade)
```



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

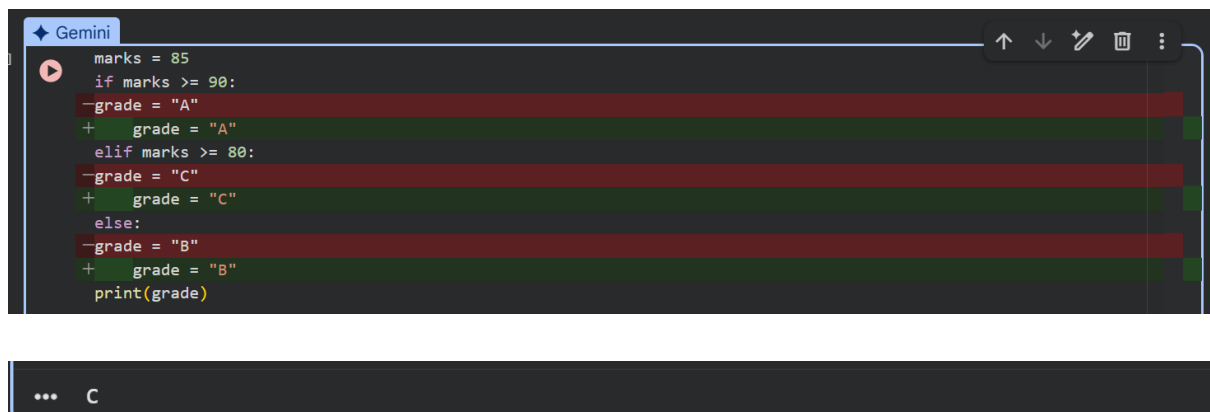
```
marks = 85
if marks >= 90:
    grade = "A"
elif marks >= 80:
    grade = "C"
else:
    grade = "B"
print(grade)
```

The code is executed, and an error is displayed:

```
... 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:



The screenshot shows a Gemini chat interface with the following code:

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

The code is executed, and the output is displayed:

```
C
```