

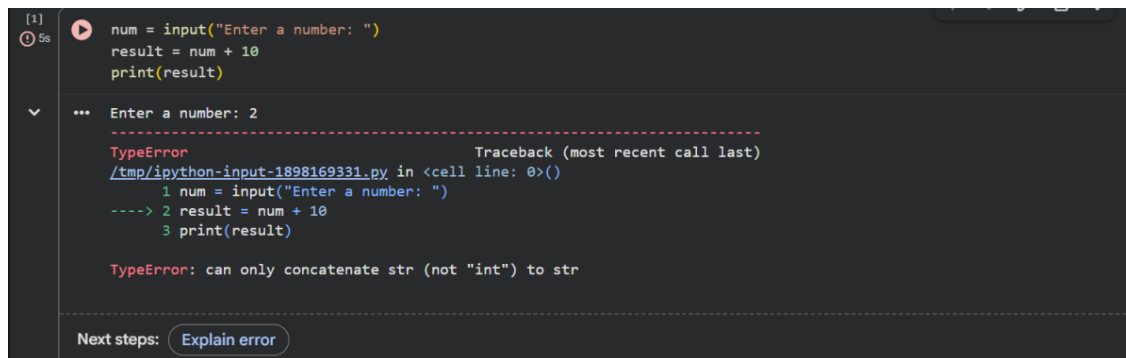
School of Computer Science and Artificial Intelligence

Lab Assignment # 7.2

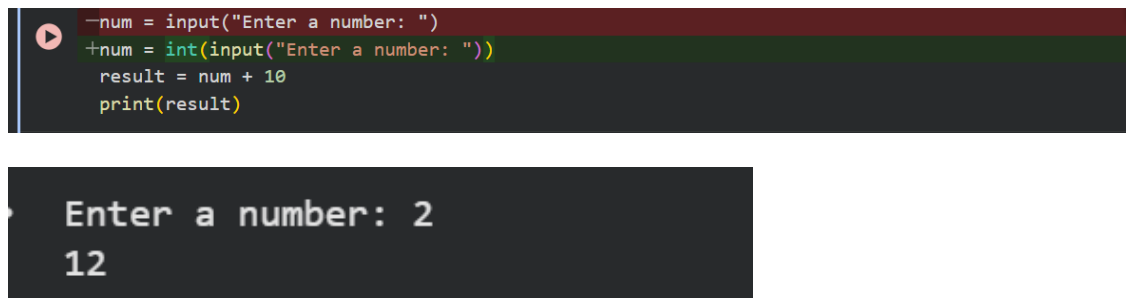
Program : B. Tech (CSE)
Specialization : -
Course Title : AI Assisted Coding
Course Code : 23CS002PC304
Semester : II
Academic Session : 2025-2026
Name of Student : paindla vamshi
Enrollment No. : 2403A51L24
Batch No. : 51
Date : 30/01/26

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)
```



```
[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
```

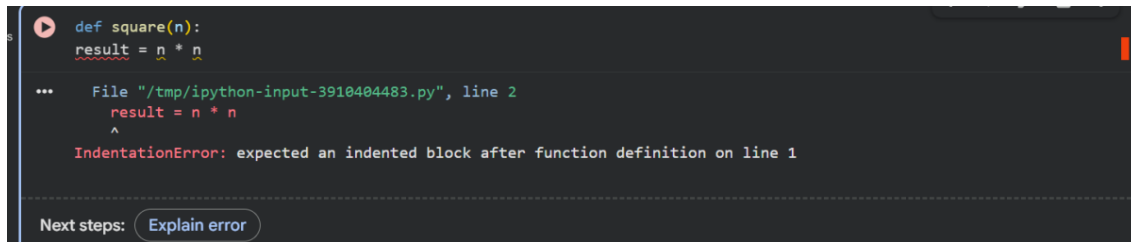
Output:

```
+num = 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
```

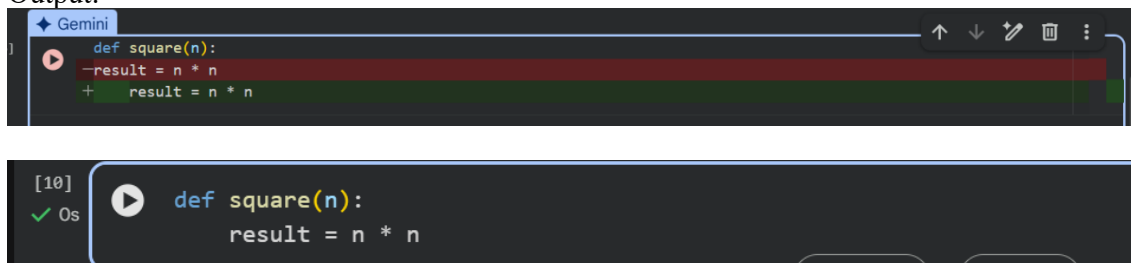


```
def square(n):
result = n * n
```

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
```

[10] ✓ 0s

Task 3 – IndexError in List Traversal

(Buggy Code):

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

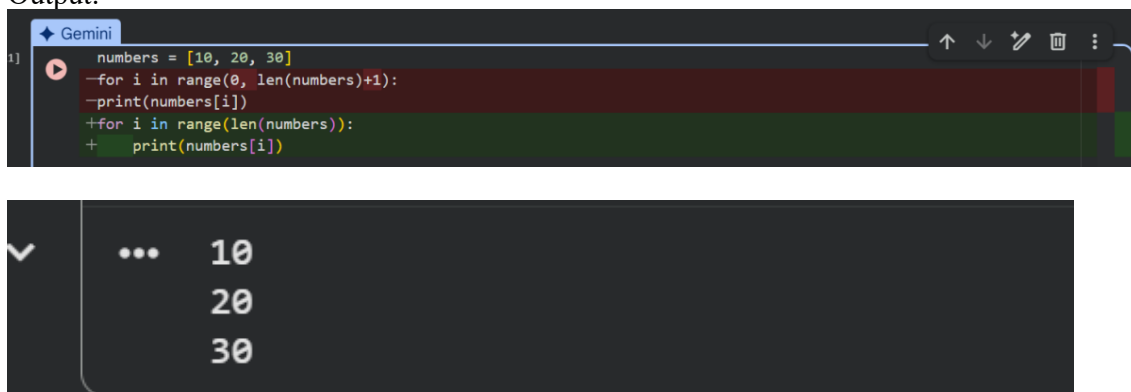


```
numbers = [10, 20, 30]
for i in range(0, len(numbers)+1):
print(numbers[i])
```

File "/tmp/ipython-input-726334973.py", line 3
 print(numbers[i])
 ^
 IndexError: list index out of range

Next steps: [Explain error](#)

Output:



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

```
[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