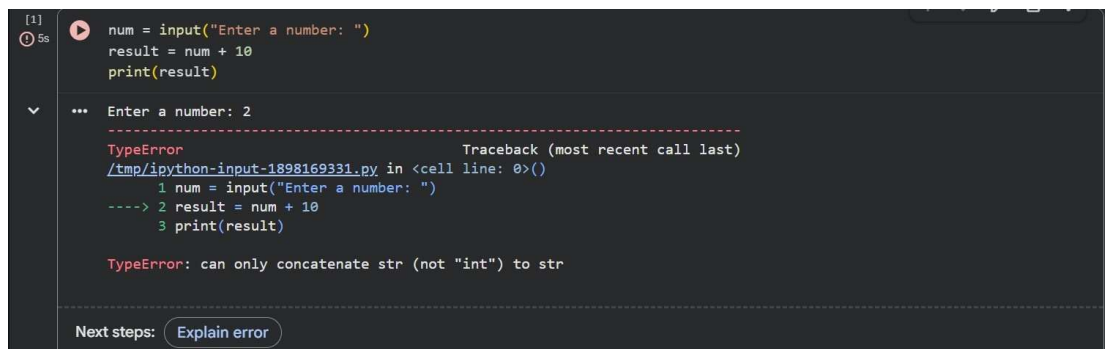


Lab Assignment # 7.2

Submission Starts here

| | | |
|------------------|----------------------|--|
| Program | : B. Tech (CSE) | Screenshots: Task 1 – Runtime Error Due to Invalid Input Type |
| Specialization | : - | |
| Course Title | : AI Assisted Coding | |
| Course Code | : 23CS002PC304 | |
| Semester | : II | |
| Academic Session | : 2025-2026 | |
| Name of Student | : A.Goutham | |
| Enrollment No. | : 2403A51L43 | |
| Batch No. | : 52 | |
| Date | : 30/01/26 | |

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



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

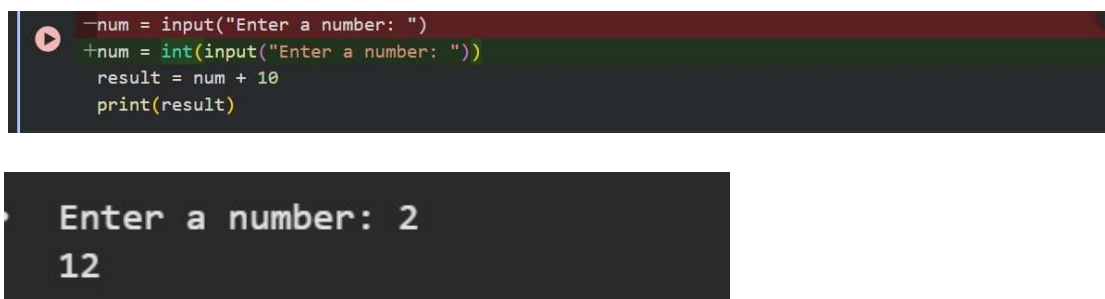
Enter a number: 2

-----
TypeError                                Traceback (most recent call last)
/tmp/ipynthon-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
```

[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])
 ^
 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
```

(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:

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

Gemini
[1] 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