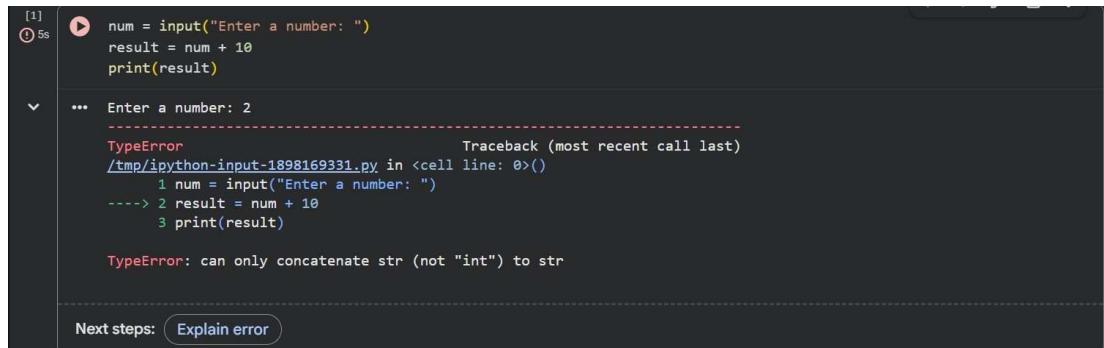


School of Computer Science and Artificial Intelligence

Lab Assignment # 7.2Submission Starts here

Program : B. Tech (CSE)
Specialization : -
Course Title : AI Assisted Coding
Course Code : 23CS002PC304
Screenshot:
Semester : II
Task 1 – Runtime Error Due to Invalid
Academic Session : 2025-2026
Name of Student : B. sai charan
Enrollment No. : 2203A51104
Input Type
Batch No. : 52
Date : 30/01/26

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



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

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

  ⌄ ... Enter a number: 2
  -----
  TypeError: can only concatenate str (not "int") to str
```

A tooltip at the bottom left says "Next steps: Explain error".

Output:



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

```
① -num = input("Enter a number: ")
  +num = int(input("Enter a number: "))
  result = num + 10
  print(result)
```

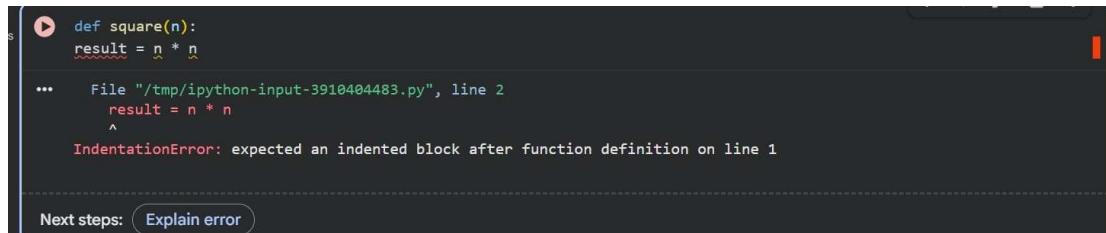
The output window below shows the execution results:

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

Task 2 – Incorrect Function Return Value

(Buggy Code):

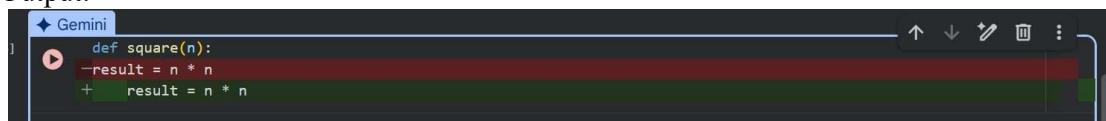
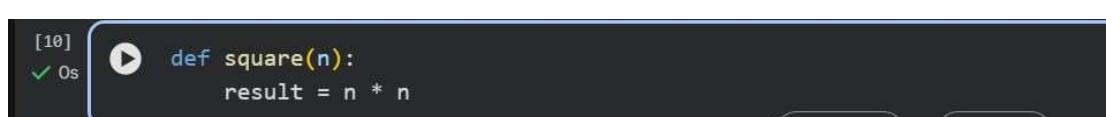
```
def square(n):
    result = n * n
```



```
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:

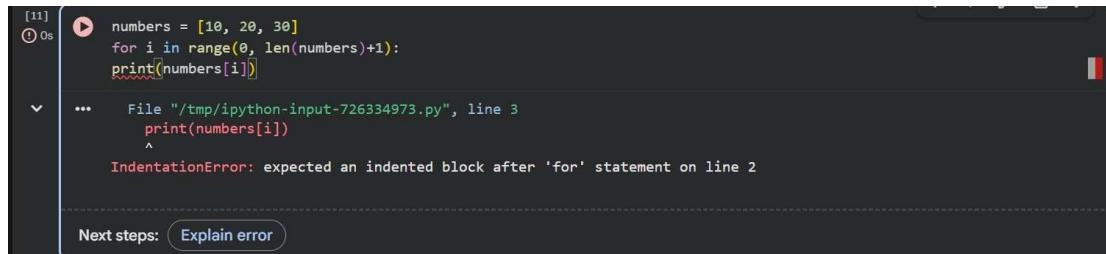



```
[10] def square(n):
    result = n * n
```

Task 3 – IndexError in List Traversal

(Buggy Code):

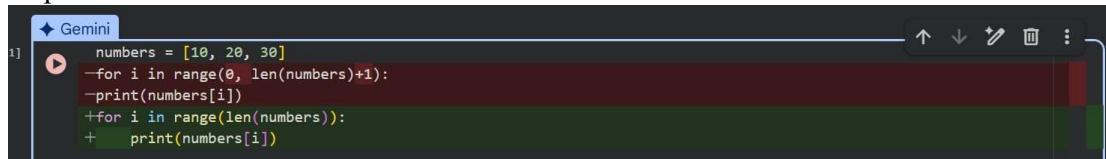
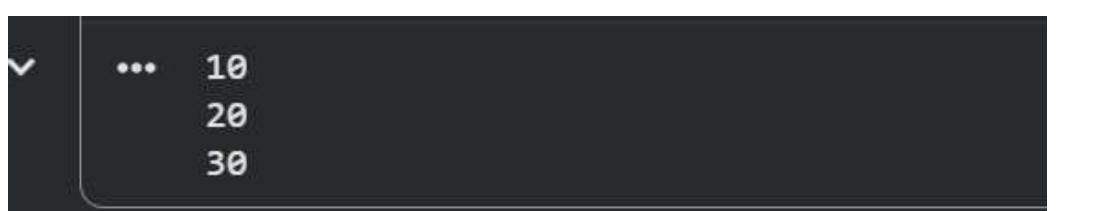
```
numbers = [10, 20, 30]
for i in
range(0, len(numbers)+1):
    print(numbers[i])
```



```
[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:

```
... 10
20
30
```

Task 4 – Uninitialized Variable Usage

(Buggy Code): if
True: pass
print(total)

A screenshot of a code editor window. The code is:[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:

A screenshot of a code editor window. The code is:Gemini
if True:
 -pass
 + pass
 print(total)
-

The code editor shows a dropdown menu with suggestions: "Gemini", "if True:", "pass", "print(total)", and "-".

... 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 code editor window with the following Python code:

```
[16] ① 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
```

Below the code, there is a button labeled "Next steps: Explain error".

Output:

The screenshot shows a code editor window with the following Python code:

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

Below the code, the output is shown in a dark bar:

```
...   C
```