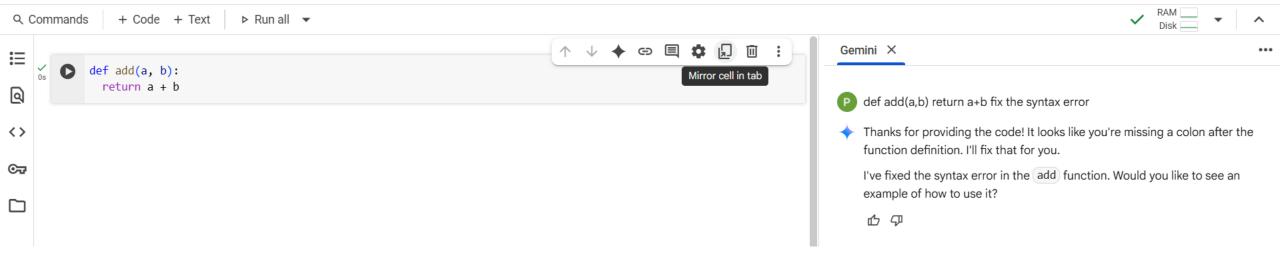
# AI ASSISTED CODING

LAB 7

• Paste a function with a missing colon (add(a, b)), and let AI fix the syntax error.

```
python

def add(a, b)
    return a + b
```



# Task Description#2 (Loops)

python

Identify and fix a logic error in a loop that causes infinite iteration.

```
def count_down(n):
        while n \ge 0:
           print(n)
           n += 1 # Should be n -= 1
                                                                                                                                                                                                       DISK ----
                                                                                                                                           Gemini X
def count down(n):
  while n >= 0:
                                                                                                                                           p def count_down(n): while n>=0: print(n) n+=1 fix the logic error in a loop
    print(n)
     n -= 1
                                                                                                                                                that causes infinite iteration
                                                                                                                                           → You're right, there's a logic error that's causing an infinite loop! The counter
                                                                                                                                                is being incremented instead of decremented. I'll fix that for you.
                                                                                                                                                I've fixed the logic error in the count down function. Would you like to see
                                                                                                                                                an example of how it works now?
                                                                                                                                                 凸 夕
```

• Debug a runtime error caused by division by zero. Let AI insert try-except.

```
# Debug the following code
def divide(a, b):
    return a / b
print(divide(10, 0))
```

```
[7] def divide(a, b):
    if b == 0:
        return "Error: Cannot divide by zero!"
        return a / b

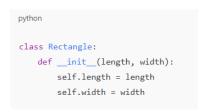
print(divide(10, 0))

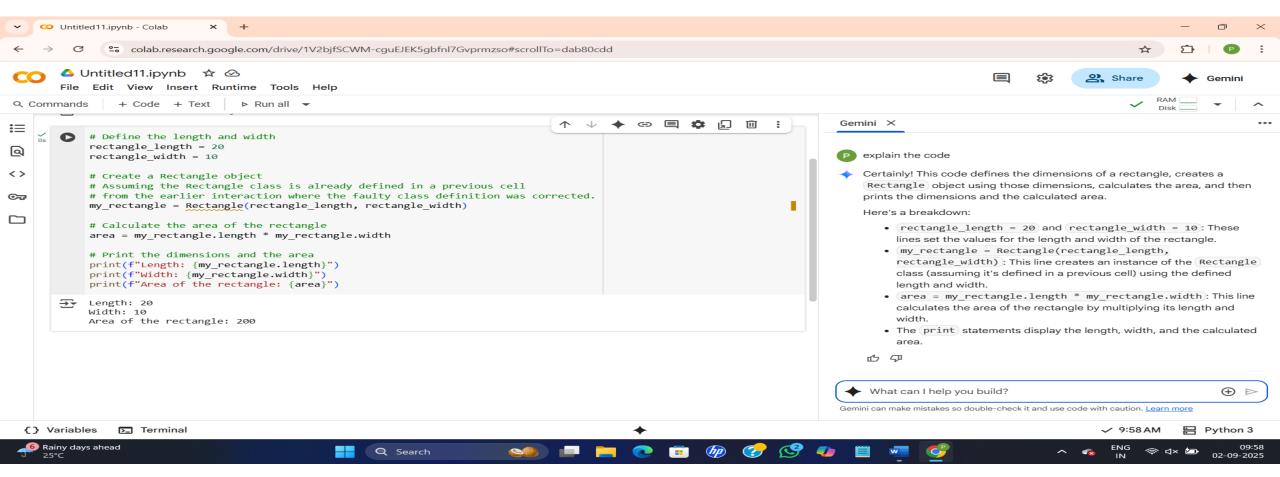
Error: Cannot divide by zero!
```

- P def divide(a,b): return a/b print(divide(10,0)) debug a runtime error caused by division by zero
- → You've encountered a ZeroDivisionError because you're trying to divide by zero. I can modify the function to handle this case and prevent the error. I've modified the divide function to handle division by zero. Would you

like to see an example of it working with valid numbers?

• Provide a faulty class definition (missing self in parameters). Let AI fix it





Access an invalid list index and use AI to resolve the Index Error

