SR UNIVERSITY

Program	:B.tech(CSE)
Specialization	:AIML
Course Title	:AI Assisted Coding
Course Code	:24CS002PC215
Semester	:3rd semester
Academic Session	:2025-2026
Name of Student	:Kurapati Akshitha
Enrollment No.	:2403A52021
Batch No.	:02
Date	:16/09/2025

#LAB ASSIGNMENT

#TASK DESCRIPTION-1:

- Task #1 – Syntax Error in Conditionals

```python
a = 10
if a = 10:
    print("Equal")
```

#PROMPT:

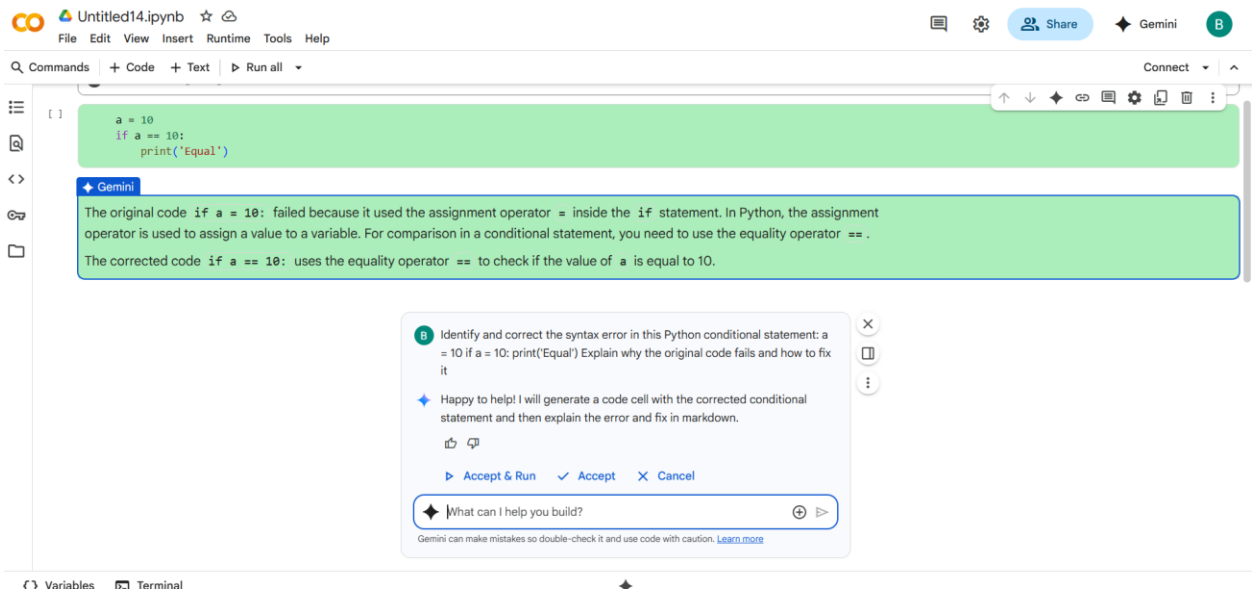
"Identify and correct the syntax error in this Python conditional statement:

CODE:

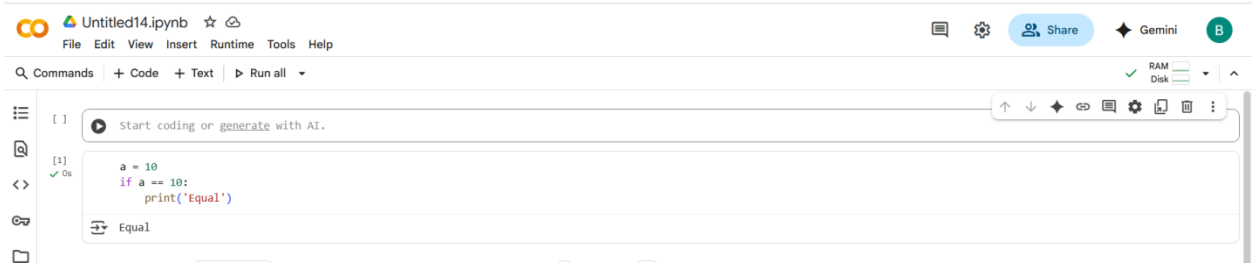
```
a = 10
if a = 10:
    print('Equal')
```

Explain why the original code fails and how to fix it.

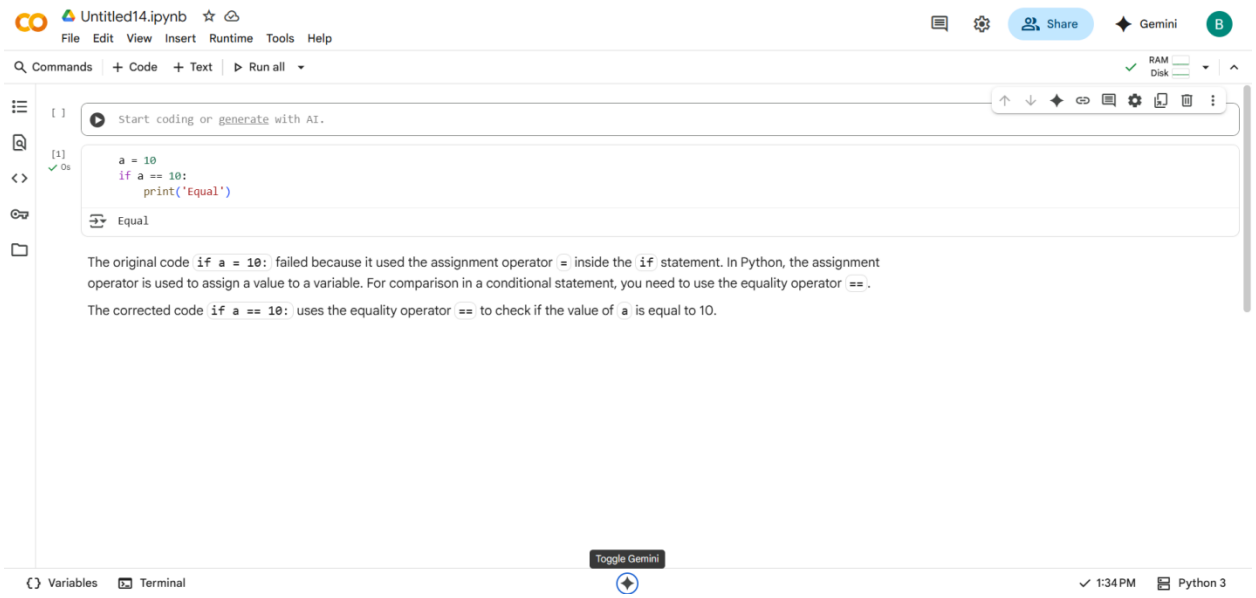
#QUESTION:



#CODE with OUTPUT:



#EXPLANATION:



#What I did:

I correct the error without using AI, After giving this code to AI it will also did same correction.

#TASK DESCRIPTION-2:

- Task #2 – Loop Off-By-One Error.

```
def sum_upto_n(n):
    total = 0
    for i in range(1, n):
        total += i
    return total
```

#PROMPT:

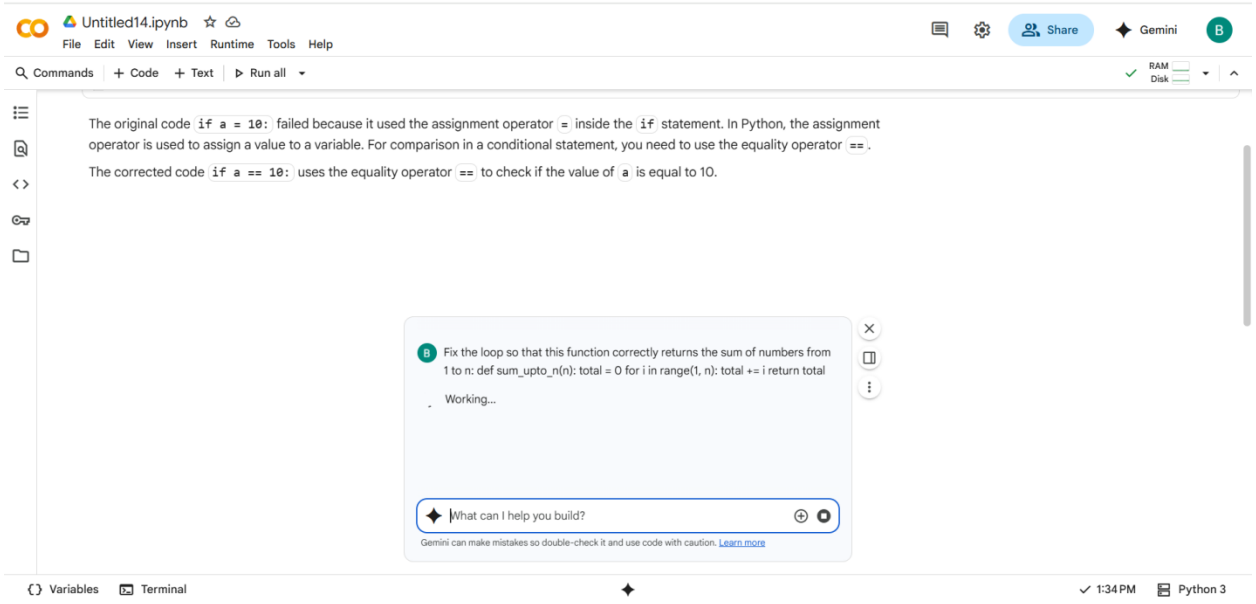
Fix the loop so that this function correctly returns the sum of numbers from 1 to n:

def sum_upto_n(n):

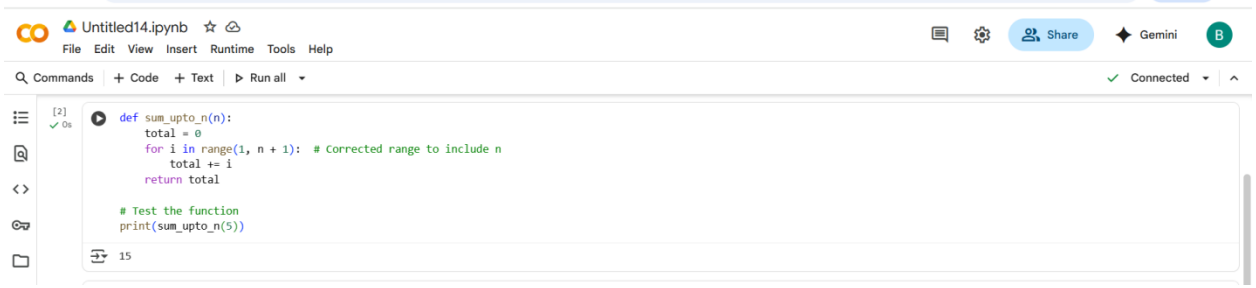
    total = 0

```
    for i in range(1, n):
        total += i
    return total
```

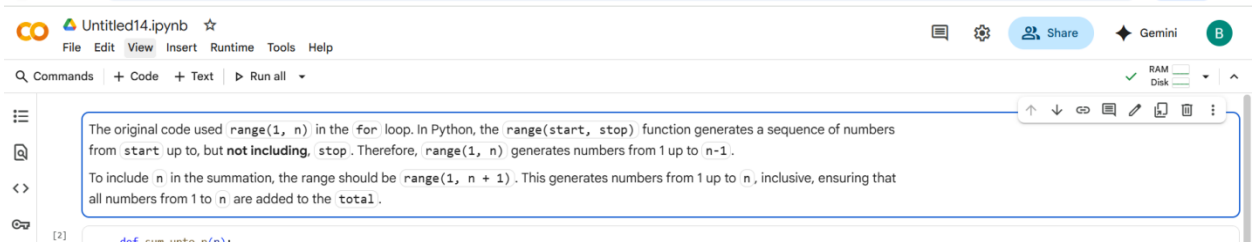
#QUESTION:



#CODE with OUTPUT:



#EXPLANATION:



What I did:

I correct this error in another way AI correction was different compare to me.

#TASK DESCRIPTION-3:

- Error: AttributeError

```
class User:
    def __init__(self, name):
        self.name = name

u = User("Alice")
print(u.getName())
```

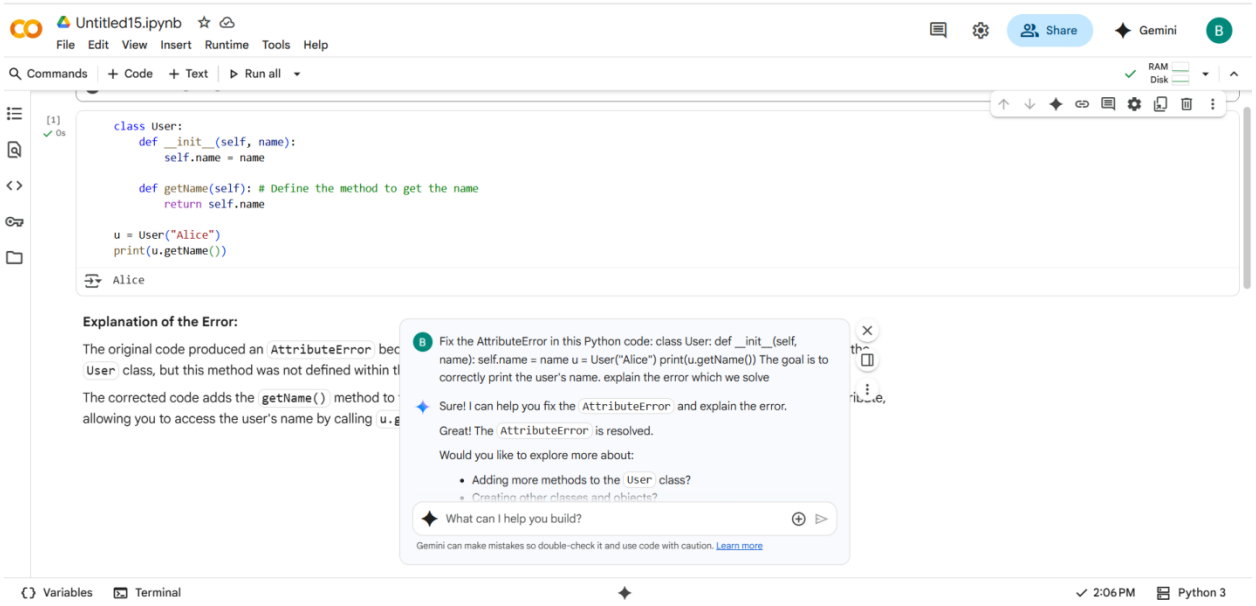
#PROMPT:

Fix the AttributeError in this Python code:

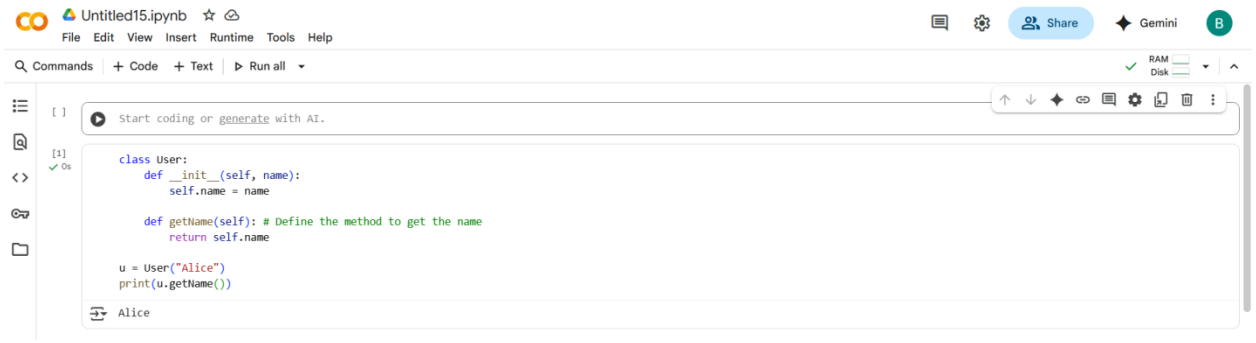
```
class User:
    def __init__(self, name):
        self.name = name


u = User("Alice")
print(u.getName())
```

The goal is to correctly print the user's name.

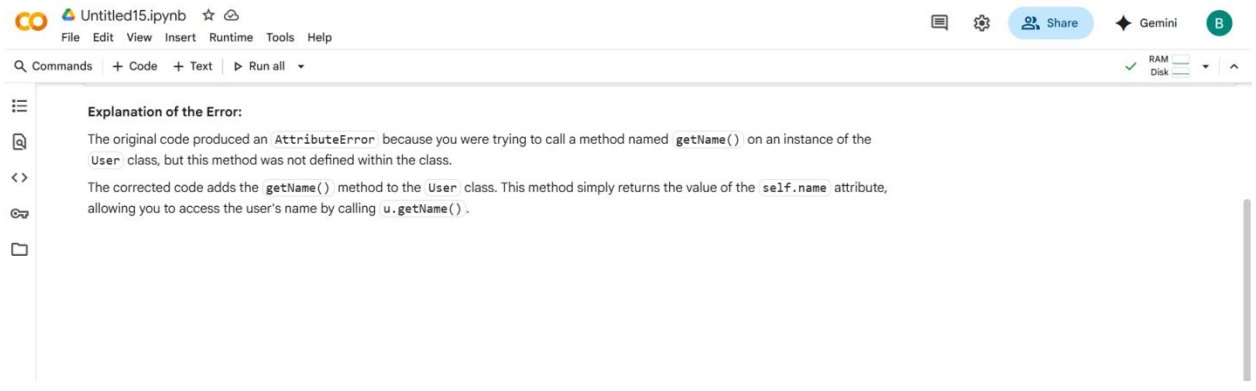
#QUESTION:



#CODE with OUTPUT:



#EXPLANATION:



What I did:

Actually I am facing littile bit of problem correction of this error finally I do almost correct code ,but AI did very well.

#TASK DESCRIPTION-4:

- **Incorrect Class Attribute Initialization**

```
class Car:
    def start():
        print("Car started")

mycar = Car()
mycar.start()
```

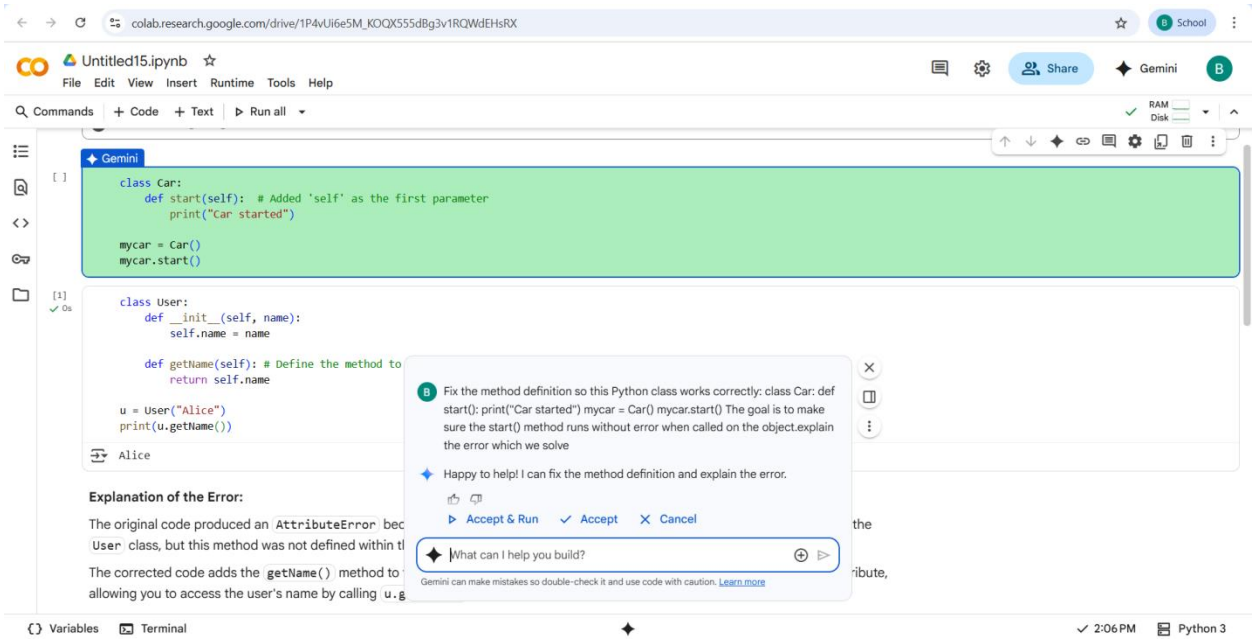
#PROMPT:

Fix the method definition so this Python class works correctly:

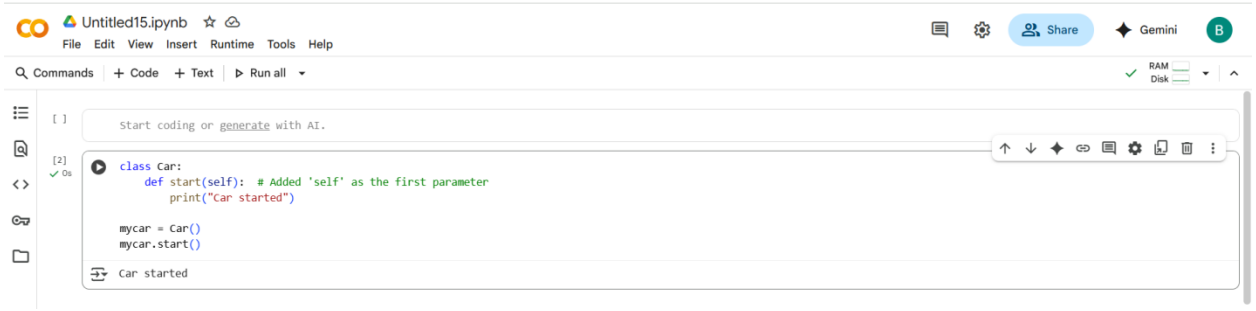
```
class Car:
    def start():
        print("Car started")


mycar = Car()
mycar.start()
```

The goal is to make sure the `start()` method runs without error when called on the object.

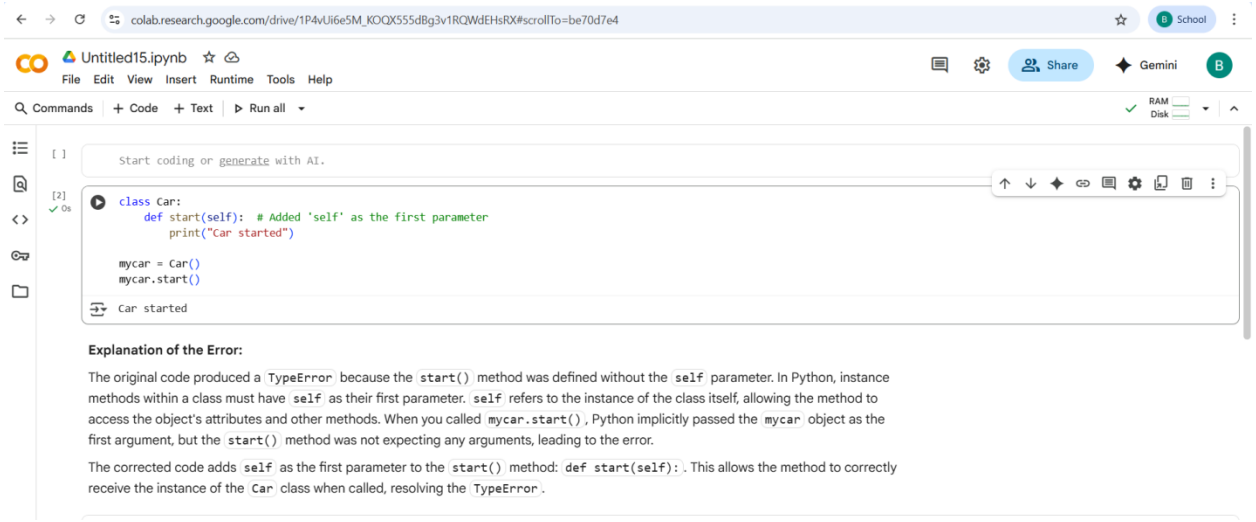
#QUESTION:



#CODE with OUTPUT:



#EXPLANATION:



What I did:

I correct this error without using AI , after giving this code to AI it will also do same thing.

#TASK DESCRIPTION-5:

- Conditional Logic Error in Grading System

```
def grade_student(score):
    if score < 40:
        return "A"
    elif score < 70:
        return "B"
    else:
        return "C"
```

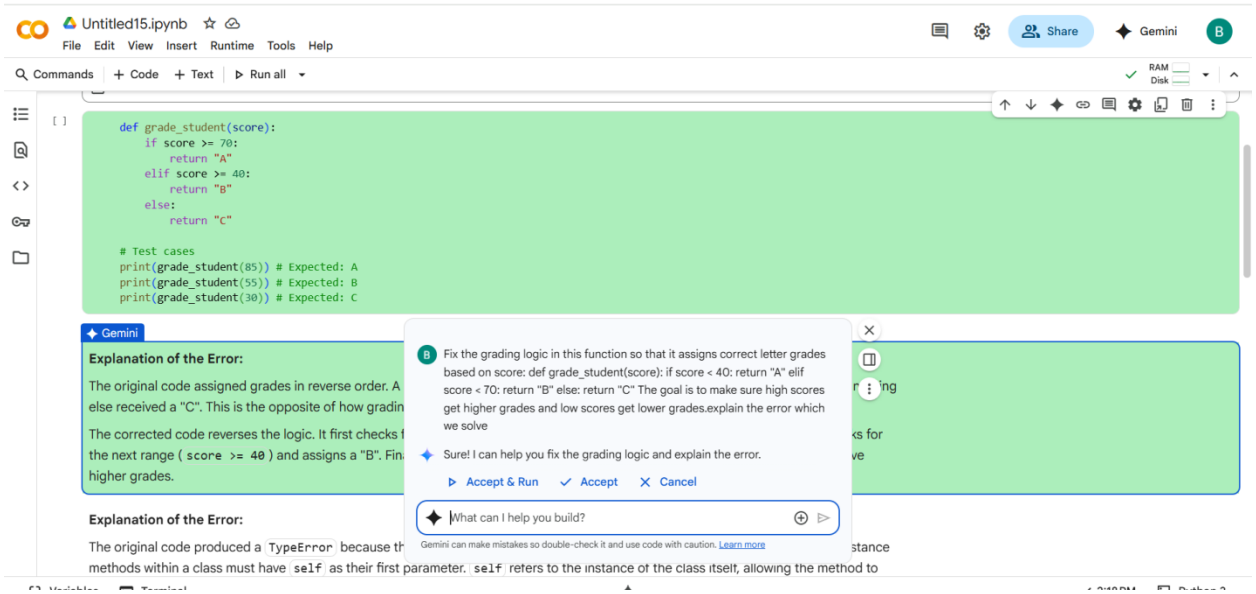
#PROMPT:

Fix the grading logic in this function so that it assigns correct letter grades based on score:

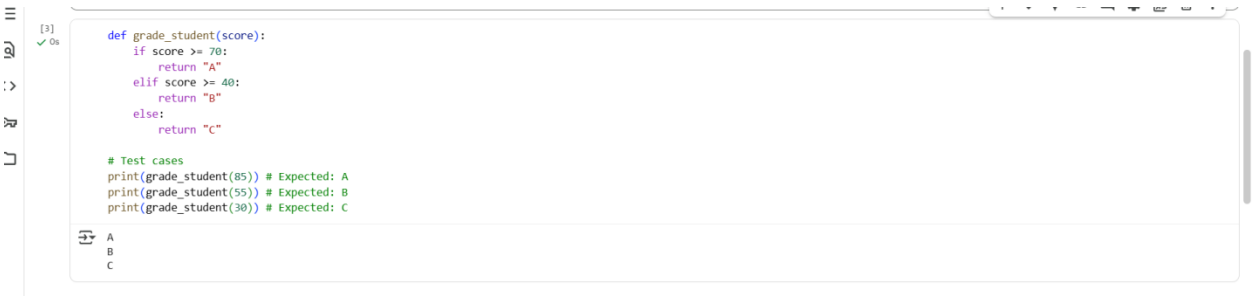
```
def grade_student(score):
    if score < 40:
        return "A"
    elif score < 70:
        return "B"
    else:
        return "C"
```

The goal is to make sure high scores get higher grades and low scores get lower grades.

#QUESTION:



#CODE with OUTPUT:



#EXPLANATION:

What I did:

I corrected this error without using the AI , after giving to AI some differences compare to AI code and My code.

- THANK YOU-