

ALA-1

Code With Mistake Comments

```
print("Stock Manager")

products = int(input("Enter product count: "))

i = 0
total_stock = 0

while i < products:
    stock = int(input("Enter stock quantity: "))
    total_stock = total_stock + stock

    if stock < 10:
        print("Low stock")
    else:
        print("Sufficient stock")

    i = i + 1 # ✗ Galat jagah

print("Total stock:", total_stock)

if total_stock > 500 # ✗ : missing
    print("Warehouse full")
else:
    print("Warehouse normal")
```

Mistakes Explanation

1. Indentation Error (Very Important)

In Python, indentation is mandatory. The line `i = i + 1` is outside the while loop. It must be indented inside the loop; otherwise, the loop will become infinite.

2. Missing Colon (:) After if Condition

The line `if total_stock > 500` is missing a colon : at the end. Python requires a colon after every if statement.

3. Infinite Loop Issue

Since `i` is not increasing inside the while loop, the condition `i < products` will always remain True, causing an infinite loop.

4. Program Will Not Execute Due to Syntax Error

Because of the missing colon, Python will show a syntax error and stop execution before running the final condition.

Correct Code

```
print("Stock Manager")

products = int(input("Enter product count: "))

i = 0
total_stock = 0

while i < products:
    stock = int(input("Enter stock quantity: "))
    total_stock = total_stock + stock

    if stock < 10:
        print("Low stock")
    else:
        print("Sufficient stock")

    i = i + 1 # ✅ Sahi jagah

print("Total stock:", total_stock)

if total_stock > 500: # ✅ : added
    print("Warehouse full")
else:
    print("Warehouse normal")
```

output:

The screenshot shows the PyCharm IDE interface with the 'Run' tab selected. The run configuration is set to 'solve code'. The terminal window displays the execution of a Python script named 'solve code.py'. The script is located at 'C:\Users\asd\PycharmProjects\PythonProject1\.venv\Scripts\python.exe' and takes command-line arguments 'C:\Users\asd\Desktop\mitraj python aia\solve code.py'. The script interacts with the user to manage stock levels. It asks for the product count (3), enters stock quantity (5), and identifies it as 'Low stock'. Then, it enters stock quantity (20) and identifies it as 'Sufficient stock'. Finally, it enters stock quantity (8), identifies it as 'Low stock', calculates total stock (33), and concludes that the warehouse is 'normal'. The process exits with code 0.

```
C:\Users\asd\PycharmProjects\PythonProject1\.venv\Scripts\python.exe "C:\Users\asd\Desktop\mitraj python aia\solve code.py"
Stock Manager
Enter product count: 3
Enter stock quantity: 5
Low stock
Enter stock quantity: 20
Sufficient stock
Enter stock quantity: 8
Low stock
Total stock: 33
Warehouse normal

Process finished with exit code 0
```

15:34 CRLF UTF-8 4 spaces Python 3.14 (PythonProject1)