

ALA-1Code 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 a terminal window titled "Run" with a tab labeled "solve code". The command executed is "C:\Users\asd\PycharmProjects\PythonProject1\.venv\Scripts\python.exe "C:\Users\asd\Desktop\mitraj python ala\solve code.py"". The output of the script is as follows:

```
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
```

The bottom status bar of the terminal shows the file path "> Users > asd > Desktop > mitraj python ala > solve code.py", the time "15:34", encoding "CRLF", "UTF-8", "4 spaces", and the Python version "Python 3.14 (PythonProject1)".