

## **CASE STUDY – 01**

***“Grocery Store Billing System using Python”***



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## **Problem Statement:**

- A grocery store wants to calculate the total cost of items purchased by a customer.
- Calculate the total cost of 5 different items & each item can be taken in multiple numbers.
- Add a 10% discount if the total exceeds Rs. 100.
- Display the final payable amount.

# PYTHON CODE

```
#Grocery Billing System

total = 0 #Variable to store total amount

# Repeat 5 times for 5 items

for i in range(1, 6):

    print("\nItem", i)

    price = float(input("Enter price: "))

    quantity = int(input("Enter quantity: "))

    total = total + (price * quantity) # Add cost to total

discount = 0 # Initially no discount

# Check if discount applies

if total > 100:

    discount = total * 0.10 # 10% discount

final_amount = total - discount # Calculate final amount

# Display results

print("\n----- BILL -----")

print("Original Total: Rs.", total)

print("Discount: Rs.", discount)

print("Final Amount: Rs.", final_amount)
```