Aim:

You are tasked with creating a Python program to generate retail shop billing. The program should take input from the user for the following details:

- Customer name
- Date of purchase (in the format DD/MM/YYYY)
- Number of items purchased

For each item, the program should prompt the user to enter the following details:

- Item name
- Quantity
- Price per unit

The program should calculate the total bill amount and display the item-wise details along with the total bill amount.

Write a Python program to implement the retail shop billing system based on the above requirements. The program should use appropriate variables, input functions, loops, and calculations to generate the billing.

Input Format:

- Customer name (string)
- Date of purchase (string)
- Number of items purchased (integer)

For each item:

- Item name (string)
- Quantity (integer)
- Price per unit (float)

Output Format:

- Display the customer name and date of purchase.
- Display the item-wise details including item name, quantity, price per unit, and total cost for each item.
- Display the total bill amount.

Source Code:

retailBilling.py

```python
#Type Content here...
na=input('Customer name: ')
d=input("Date of purchase (DD/MM/YYYY): ")
n=int(input("Number of items purchased: "))
print("-----Retail Shop Billing-----")
print("Customer Name:",na)
print("Date of Purchase:",d)
print("Item-wise Details:")
print("Item Name\tQuantity\tPrice Per Unit\tTotal Cost")
print("-------------------------------------------------")
totamt=0
for i in range(1,n+1):
    print("Item",i)
    x=input("Item name: ")
    q=int(input("Quantity: "))
    p=int(input("Price per unit: "))
```

```
    amt=p*q
    print(x,q,'%.1f'%p,"%.2f"%amt,sep='\t\t')
    totamt=totamt+amt
 print("Total Bill Amount:","%.1f"%totamt)
```

Execution Results - All test cases have succeeded!

Test Case - 1
User Output
Customer name: Harry
Date of purchase (DD/MM/YYYY): 11/05/2023
Number of items purchased: 2
-----Retail Shop Billing----- Jeans
Customer Name: Harry Jeans
Date of Purchase: 11/05/2023 Jeans
Item-wise Details: Jeans
Item Name   Quantity   Price Per Unit Total Cost Jeans
-- Jeans
Item 1 Jeans
Item name: Jeans
Quantity: 2
Price per unit: 399
Jeans   2   399.0   798.00 Shirt
Item 2 Shirt
Item name: Shirt
Quantity: 1
Price per unit: 299
Shirt   1   299.0   299.00
Total Bill Amount: 1097.0

Test Case - 2
User Output
Customer name: Catherine
Date of purchase (DD/MM/YYYY): 05/07/2023
Number of items purchased: 3
-----Retail Shop Billing----- Tops
Customer Name: Catherine Tops
Date of Purchase: 05/07/2023 Tops
Item-wise Details: Tops
Item Name   Quantity   Price Per Unit Total Cost Tops
-- Tops
Item 1 Tops
Item name: Tops
Quantity: 3
Price per unit: 299
Tops   3   299.0   897.00 Leggins
Item 2 Leggins
Item name: Leggins
Quantity: 2
Price per unit: 199
Leggins   2   199.0   398.00 Jeans
Item 3 Jeans

Item name: Jeans			
Quantity: 4			
Price per unit: 459			
Jeans	4	459.0	1836.00
Total Bill Amount: 3131.0			