DiscountCalculator Program

Write a program to ask the user to enter the name of the item, price of the item and the quantity.

- 1. Format output to have two decimal places.
- 2. calculate the total based on:
 - quantity less than 10, 0% no discount
 - between 10 and 20, 20% discount
 - between 21 and 50, 40% discount
 - Between 51 and 100, 60% discount
 - Greater than 100, 70% 3.

create a function that returns the discount as a (double) based on the quantity.

Sample input Please enter the name, the price of the item and the quantity:

Sample output:

Name = Apple
Price = \$10.00
Quantity = 20
Discount percentage = 20.0%
Discount amount = \$40.00
Total = \$160.00

Explanation:

- 1. getDiscountPercentage(int quantity):
 - This method determines the discount based on the number of items purchased. It returns the discount percentage as a double.

2. User Input:

 The program prompts the user to enter the item's name, price, and quantity using the Scanner class.

3. Calculations:

- o **Discount percentage** is calculated using the getDiscountPercentage method.
- o **Discount amount** is calculated as (discountPercentage / 100) * price * quantity.

o **Total price** is calculated as price * quantity - discountAmount.

4. Formatted Output:

• The results are printed using System.out.printf() to ensure two decimal places for price, discount, and total.