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Question 10

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Coding Question 2

The ‘7 Eleven’ supermarket is giving discounts for their customers who shop between 7pm (19:00) and 11pm (23:00). The discounts are given according to the time and the total amount they spend at the shop. The discount percentages are shown in the following table:

Time (24 Hrs)	Total >= 5000	5000 > Total >= 2500
19:00 to 21:00	10%	7%
22:00 to 23:00	12%	9%

a) Write a method called calDiscount() to calculate the discount given for a transaction by sending the time as an integer (Eg: between 19:00 to 19:59 need to enter only 19) and the total amount as input parameters.

double calDiscount (int time, double totalAmount)

b) The supermarket has decided to give a free gift for the customers according to the final total after applying the discount. The table below shows the criteria for the gifts:

Final Amount (after discount applied)	Gift
>= 7000	Packet of Milk
5000 – 6999	Pack of 6 Eggs
3000 – 4999	1 Kg of Sugar
< 3000	No Gift

Write a method called displayGift() to display the gift that the customer is eligible for.

void displayGift (double finalTotal)

- c) In the main() program implement the following:
- i. Ask user to input time and total amount from the keyboard

ii. If user entered an invalid time (any range outside 7pm and 11pm) then display an error message

iii. Display the final total (after applying the discount) by calling/invoking the method

iv. Display the gift customer is eligible for by calling/invoking the method

Save your program as: **ITxxxxxxxQ2.java**

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2024 Jul-Dec IT1120 Mid Term Marks

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