

**CS 102**

**Question prepared by S P Patel**

**Question for Lab 4 (Max marks 4)      Date 28th Jan 2019**

During Big Indian Festival Sell, amazon decides to provide following seasonal discounts on purchase of items.

Purchase amount	Discounts on categories of products					
	PHONES AND LAPTOPS		CLOTHS		HOME APPLIANCES AND FURNITURES	
	BANK DISCOUNTS	Amazon pay cashback	BANK DISCOUNTS	Amazon pay cashback	BANK DISCOUNTS	Amazon pay cashback
0-1499	3%	0%	5%	0%	4%	1%
1500-4999	8%	5%	10%	5%	10%	3%
5000-14999	10%	10%	15%	10%	15%	15%
>=15000	12%	15%	15%	15%	15%	20%

**Write a program using decision making and branching statements to find following information for the data given above**

Question :

1. Find the effective price of the products (collectively).
2. Find the amount of amazonpay cashback received.
3. Find the amount deducted from bank account.
4. Effective discount percent upto two decimal

**Note : 1. assume there is no overlap among categorise.**

**2. Assume that price of the product is entered by the user manually.**

**3. Total bank discount must not exceed 2000. And amazon pay must not exceed 1200.**

**4. Modularity of your code is optional**

**5. Additional creativity and good appearance on the screen will be awarded extra marks.**

**Example 1: if a customer made a purchase of HOME APPLIANCES of price 20000 then, zhe will get 2000 bank discount and 1200 amazon pay discount. Amount.**

**Example 2: if a customer made a purchase of CLOTHS of price 6000 then, zhe will get 900 Bank discount and 600 Amazonpay cashback.**

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**Sample Output: Ignore any mathematical error on the table Sample output Case if any.**

<p>Sample output Case 1</p> <p><b>Menu</b></p> <p>1. Phone and laptop</p> <p>2. Cloths</p> <p>3. Home appliances</p> <p>Enter item to be purchased <b>1</b></p> <p>Enter amount for the items <b>8000</b></p> <p>Is there any product from other category <b>Y</b></p> <p><b>Menu</b></p> <p>1. Phone and laptop</p> <p>2. Cloths</p> <p>3. Home appliances</p> <p>Enter item to be purchased <b>3</b></p> <p>Enter amount for the items <b>6000</b></p> <p>Is there any product from other category <b>N</b></p> <p>Before discount total price of product from cat Phone and laptop is 8000 and Home appliances is 6000</p> <p>Discount for Phone and laptop category is 800 Bank disc and 800 Amazon pay</p> <p>Discount for Home appliances category is 900 Bank disc and 900 Amazon pay</p> <p><b>Total bank discount = 1700</b></p> <p><b>Total cashback= 1200</b></p> <p><b>Effective price= 8000+6000-1700-1200= 11100</b></p> <p><b>Amount deducted from bank = 12200</b></p> <p><b>Effective discount percent upto two decimal = 20.71%</b></p>	<p>Sample output Case 2</p> <p><b>Menu</b></p> <p>1. Phone and laptop</p> <p>2. Cloths</p> <p>3. Home appliances</p> <p>Enter item to be purchased <b>2</b></p> <p>Enter amount for the items <b>1000</b></p> <p>Is there any product from other category <b>Y</b></p> <p><b>Menu</b></p> <p>1. Phone and laptop</p> <p>2. Cloths</p> <p>3. Home appliances</p> <p>Enter item to be purchased <b>3</b></p> <p>Enter amount for the items <b>4000</b></p> <p>Is there any product from other category <b>Y</b></p> <p><b>Menu</b></p> <p>1. Phone and laptop</p> <p>2. Cloths</p> <p>3. Home appliances</p> <p>Enter item to be purchased <b>1</b></p> <p>Enter amount for the items <b>1500</b></p> <p>Is there any product from other category <b>N</b></p> <p>Before discount total price of product from cat Cloths is 1000 , Phone and laptop Is 1500 and Home appliances is 4000</p> <p>Discount for Phone and laptop category is 120 Bank disc and 75 Amazon pay</p> <p>Discount for cloths category is 50 Bank disc and 0 Amazon pay</p> <p>Discount for Home appliances category is 400 Bank disc and 120 Amazon pay</p> <p><b>Total bank discount = 570</b></p> <p><b>Total cashback= 195</b></p> <p><b>Effective price=</b> <b>1000+1500+4000-570-195=5735</b></p> <p><b>Amount deducted from bank = 5930</b></p> <p><b>Effective discount percent upto two decimal = 11.76%</b></p>
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