Name- Ishita Raj  
Reg no-17BLC1110  
Email id- [ishita21.raj@gmail.com](mailto:ishita21.raj@gmail.com)

QUESTIONS

**1.You need to write as many test cases as possible for a simple software program which computes the eligible discount for a customer. Try to describe all possible scenarios in a tabular format. Do not worry about ‘login’ kind of test cases, and just focus on how you will validate discount calculation. These are the rules.**

**If the customer is new, and they are willing to sign up for a new loyalty card, they get a 15% discount on all their purchases on the day. Second if they are an existing customer and hold a loyalty card, they get a 10% discount. Third, if they have a discount coupon, they will get 20% off which cannot be used with the new customer discount but can be used with loyalty card discount. Discount amounts are added, if applicable.**

Ans-

Types of customer:

* New Customer
* Existing Customer

Step 1 : This whole scenario is divided into 6 categories

* New customer with no coupon
* New customer with coupon and loyalty card
* Existing customer with loyalty card and no coupon
* Existing customer with no coupon and no loyalty card
* Existing customer with coupon and loyalty card
* Existing customer with loyalty card and coupon both

Decision table

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Types of customer | New customer ,no coupon | New customer with coupon and loyalty card | Existing customer with loyalty card and no coupon | Existing customer with no coupon and no loyalty card | Existing customer with coupon and no loyalty card | Existing customer with loyalty card and coupon both |
| Discount |  |  |  |  |  |  |  |
| 15% |  | X | X |  |  |  |  |
| 10% |  |  |  | X |  |  | X |
| 20% |  |  | X |  |  | X | X |
| No discount |  |  |  |  | X |  |  |

So pick a value and test the condition to see if the correct amount of discount is applied.

Now at every situation it will be checked and discount will be applied according to the types of users.

New User

|  |  |  |  |
| --- | --- | --- | --- |
| Test Cases | Input type | Action | Output |
| New customer ,no coupon | New user | 15% discount | loyalty card only |
| New customer with coupon and loyalty card | New User | Loyalty card+ coupon(20%) | Both privilege |

Existing User

|  |  |  |  |
| --- | --- | --- | --- |
| Test Cases | Input type | Action | Output |
| Existing customer with loyalty card and no coupon | Existing User | 10 % discount | Just one discount applicable |
| Existing customer with coupon and no loyalty card | Existing User | 20 % discount | Just One discount |
| Existing customer with loyalty card and coupon both | Existing User | 10% + 20 % | Both the Discount |
| Existing customer with no coupon and no loyalty car | Existing User | No Discount | No discount |

**2. The following appeared as part of an article in the business section of a local newspaper:**

Ans- According to this newspaper article, Jenny’s Beauty Parlour made a mistake by relocating four months ago. The author supports this claim by pointing out that Jenny’s business took a toll and thus concluding business is obviously unsuitable to the location. This argument is questionable for several reasons.

To begin with, the two businesses are too dissimilar for meaningful comparison. Jenny’s old location may simply have been better suited to hardware and auto repair businesses than to beauty parlours and boutiques. The article’s claim that Jenny’s made a mistake in moving fails to take this possibility into account an auto repair in the same location might be extremely successful simply because of its suitability to the location.

Secondly, the author’s claim that the Ronnie’s auto shop has been successful at Beauty parlour’s previous location is unwarranted. The fact that Ronnie’s Auto intends to open a new outlet is insufficient to establish this claim. It is possible that the plan to open a new outlet was prompted by a lack of business at the Jenny’s previous location.

Finally, the author unfairly assumes that four months' time at the new location is adequate to deduce whether Jenny’s made a mistake in moving to that location. It is entirely possible that given more time, perhaps another year or so, Jenny’s will become profitable at the location.

Common sense informs me that this is a distinct possibility, since it often takes more than four months for a beauty parlour to establish a customer base at a given location. In conclusion, the author’s argument is unconvincing. To strengthen the conclusion the author would have to evaluate other possible causes of the performance of the businesses and eliminate all except location as the cause in each case. Additionally, it would be necessary to show that location rather than suitability to a location was the cause of the success of Ronnie’s and the failure of Jenny’s.

**3 How will you test a wireless mouse? What are the different things you will test and check before you can say that it is a good quality wireless mouse?**

Ans-

1. Verify that left and right click buttons are fine
2. Check the double click is working fine
3. Check the range up to which the mouse remains operational
4. Check the battery requirement of the mouse
5. Check the option of switch on or off the mouse
6. Check the grip of the mouse also
7. Check the Bluetooth version or connection of mouse

Different things that we need to check before taking a mouse is

1. Choice of battery and recharging -Most of the mouse use AAA battery to operate which need to be replaced after a month while slightly expensive mouse have built in battery which need to be charged . So choose according to convenient.
2. DPI and sensitivity – DPI(dots per inch) Higher the DPI, more sensitive it is  
   for Normal user DPI range from 800-2000 is preferred but for gaming higher DPI mouse is preferred.
3. Shape of the mouse- The shape of the mouse is very important factor like some of us prefer using the mouse using our fingers while some of us might rest our palm on it.So need to choose those mouse which are convenient for us.
4. Lights and weights - More weights can make the mouse a little more stable and this can be a trait some players want while gaming. Some others want very light-weight mice than can be flung across the mousepad with little effort.
5. Software features- Most of the muse works without any software installed.  Some of these feature allow tweaking of the colour of the lights on the mouse, while others let you tweak the assignments to different buttons. This is useful when you move the mouse from one laptop to another. You don’t need to re-configure settings .