17BIT0359-LOGESWARI S

QA Test

**Instructions:**

• Please answers all the questions below.

• Try to be as precise as possible.

• The total time to attempt the questions is **60 min**

**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.*

***ANSWER:***

**Step 1: Partition our input into categories**

To create a decision table, we have to partition our input into categories.

There are 6 categories of users in this situation:

* New customers with coupon
* New customers without a coupon
* Existing customers with a loyalty card and no coupon
* Existing customers without a loyalty card and no coupon
* Existing customers with a loyalty card and Coupon
* Existing customers without loyalty and with a coupon

More partitions can be made but from the problem definition itself, it is not clear if the new customers can have a loyalty card or not. So let’s not assume it. Besides, this is just to show us how to arrive at a solution.

**Step 2: Construct your decision table.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Type of customer  Discount | New customers,  No coupon | New customers,  With coupon | Existing customer with loyalty card and no coupon | Existing customer without loyalty card and no coupon | Existing customer with loyalty card and coupon | Existing customer without loyalty card and with a coupon |
| 15% | x |  |  |  |  |  |
| 10% |  |  | x |  | x |  |
| 20% |  | x |  |  | x | x |
| No discount |  |  |  | x |  |  |

**Step 3: Pick a user from each input category and test**

Now from each category, we can pick one value and test to see if the correct amount of discount is applied.

So now, you will need at least 6 customers or 6 test cases to test the case completely.

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

*“Ronnie’s Auto Repair Shop commenced business four months ago at the location formerly occupied by the Jenny’s Beauty Parlour. Ronnie’s Auto must be doing well at this location, because it intends to open a big shop in an adjacent town. Jenny’s, on the other hand, has seen a lower volume of business in its first year at its new location compared to the prior year at its former location. Jenny’s definitely erred in shifting to its new location; its former location is a better site.”*

Discuss how well reasoned you find this argument. In your discussion be sure to analyse the line of reasoning and the use of evidence in the argument. For example, you may need to consider what questionable assumptions underlie the thinking and what alternative explanations or counterexamples might weaken the conclusion. You can also discuss what sort of evidence would strengthen or refute the argument, what changes in the argument would make it more logically sound, and what, if anything, would help you better evaluate its conclusion.

***ANSWER:***

Business relocation is tricky, but sometimes it’s more than necessary. It may give your business that one crucial nudge that will bring it to its maximum potential, and even though it is challenging, it’s not impossible to achieve.

**Disrupting Production**– One of the biggest, if not the biggest, downsides to business relocation is the downtime that it could cause. This process is not an easy one, so you need to consider – will the money and time invested in this move pay out. This is very well known for all seasonal based business where losing viable months in the year means losing your business.

**Adapting New Space** – As previously mentioned – adapting a new space to your needs is also a very tricky thing. Preparing everything to perfectly match your business’ needs takes time, as you have to test the production process to see where potential problems occur. Also, some landlords don’t allow big changes to their space, so you might have to find other solutions and all of this really impacts the working potential of your business.

**Generally – there are a lot of great benefits that can come from business relocation**.

When your company is growing fast, it can be quite challenging to manage a steady and clean production process. Crowded spaces lower work productivity, and probably the best way to deal with such an issue is to move. Relocating your business to a better space improves both life and work quality for your workers, and you would be surprised what kind of results you could get with such a move.

**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?**

***ANSWER:***

Writing test cases for the wireless mouse device is quite complicated unless we narrow down the device specifications. Here, I written the test cases for it.

**Three categories of tests:**

* Mouse Specification Test
* Interaction test for mouse
* Software Tests

**Mouse Specification Tests:**

* Check if the mouse is a wireless mouse or corded mouse
* In the case of wireless mouse, check the range up to which the mouse remains operational.
* In the case of a wireless mouse, check the battery requirement of the mouse.
* Check if there is an option to switch on or mouse.
* Check the company logo in a specific location.
* Check it has the specification and identification sticker behind.
* Check if the device has length and width as per the company specifications.
* Check if the optical region works as per the specification.
* Check if the mouse is an optical mouse or not.
* Verify that left-click and right-click buttons are working fine.
* Check if the double click is working fine.
* Verify the time duration between two left clicks, in order to consider it as a double click.
* Check if the scroller is present at the top or not.

**Interaction test for mouse:**

* Verify the speed of the mouse pointer.
* Check the pressure required for clicking the mouse buttons.
* Verify the acceleration of the mouse pointer.
* Verify that clicking the button and dragging the mouse operation is working fine (drag and drop functionality).
* Check if the device doesn’t have any hardware conflict during the system boot.
* Check if the device doesn’t have any hardware conflict after the startup during the desktop session.
* Check if the pointer is visible after plugged-in in between the desktop session.
* Verify if the device is pointing to the right region while pointing on the screen.
* Check the dimension of the mouse, if it’s suitable to grip and work.
* Verify that the mouse works in all the allowed surfaces.

**Software Tests:**

* Verify if the right-clicking opens the context window.
* Verify if the left-clicking will open the application or selects the regions on the screen.
* Verify if the left click allows drag and drop of desktop objects like file, folder, and media.
* Verify if the left click allows the selection of the desktop session objects.
* Verify if the double-clicking the file, folder, and media files open or does the operation as intended.
* Verify if the scroll works in the files with multi-page content.
* Verify the scroll-bar operation for up, down, left, and right direction.
* Check its properties are possible to change using system operations.