BREAKPOINT CODING CHALLENGE

Using Conditional Logic to Make Recommendations

PHASE TWO: Customer Interaction

Your customer was delighted with the way you handled the registration of the business. Even though they did not like paying the corrupt government officials, they are happy to pay you to continue working on applications for them. This time they would like you to create a customer interaction system that tries to figure out what kind of items the customer may be interested in based on how they answer some questions.

Greeting the Customer:

The system should greet the user and get the following critical pieces of information

- Customer's full name
- Customer's preferred nickname. If they don't have one, default to their first name.
- Customer's birthday month and day, it's rude to ask for the year
- Customer's country of residence.

Generate Data

There are some data items that you need to store, depending on the information you get from the customer.

If today is the customer's birthday, make a big deal out of it and let them know they get a 15% discount on today's order. Store the discount value in the system. If the customer's birthday was within the last two weeks, wish them a belated happy birthday and give them an 8% percent discount on their order. If their birthday is within the next two weeks, let them know about the birthday discount.

Determine the standard shipping cost for the customer, depending on their country. If they live in the US, Canada, or Australia, there is no charge for shipping. I'd advise you not to ask your client about their Australien connections. If they live in India, Germany, Brazil, or Madagascar, the charge for shipping is $289. Anywhere else has a shipping charge of $12.43. Inform the customer of their shipping cost and ask if they would like to continue by taking the survey. If they don't, exit the application.

Customer Survey

Next, you are to ask the customer a series of questions. The answers to the questions will have a point value that you will store and update with every answer. This calculation is very scientific, so you must get the correct answer. Verify with the user that they provided their intended answer.

- What is your favorite color
    - Red = 8
    - Blue = 3
    - Yellow = 6
    - Purple = 1
    - Black or White = 0
    - Others = 5
- What is your favorite season
    - Summer = 4
    - Spring = 9
    - Winter = 2
    - Fall = 11
    - Other = 1
- Who would you rather talk to (your mother, your father, a stranger, aliens)
    - Mother = 1
    - Father = 3
    - Stranger = 8
    - Aliens = 22
- Which would you rather be (wealthy, popular, accommodating, an alien)
    - Wealthy = 7
    - Popular = 2
    - Accommodating = 10
    - Alien = 22

Determine Product Recommendation

Once you have calculated the total score for the survey determine the recommended product

00 – 10 – Shoes made of Swiss Cheese

11 – 20 – Bottle opener shaped bottle opener

21 – 30 – Ben Franklin bowling pin

31 – 40 – Lightening in a jar

41 – 50 – Pickled elephant skull

51 – 70 – A full-sized black and white copy of Van Gogh's "Starry Night."

Display Product Recommendation

Once the customer has answered all of the questions, you are to display the results to them. You are not to share the scores, just the questions, their answers, and the product recommendation.

Thank you very much [nickname] for stopping by and taking our survey! We have a product recommendation for you based on your answers to the following questions.

[question] : [answer]
[question] : [answer]
[question] : [answer]
[question] : [answer]

Your answers have convinced us you would probably enjoy a [recommended product]. If you don't already have one, you should consider buying one for your birthday in [number of days until birthday] days. **Don't forget you still have a [discount percentage] discount you can use.**

Only mention the discount if the customer has one.