```python
[1]: print("welcome to Food Fusion")

     while True:
         Food=input("Are you a vegetarian or non Vagetarian? \na=a (vagetarian) \nb=b (non vagetarian):").lower()

         if Food=="a":
             vagetarian=input("what vagetarian options would you like? \na=a (appetizers) \nb=b (soups) \nc=c (main courses):").lower()

             if vagetarian=="a":
                 appetizers=input("In appetizers we have these: \na=a (Garden Salad) \nb=b (veggie spring rolls) \nc=c (tomato bruschetta):").lower()
                 if appetizers=="a":
                     print("enjoy your Garden Salad!")
                 elif appetizers=="b":
                     print("enjoy your veggie spring roll!")
                 elif appetizers=="c":
                     print("enjoy your tomato bruschetta!")
                 else:
                     print("Invalid choice.")

             elif vagetarian=="b":
                 soups=input("In soups we have these: \na=a (cream of mushroom soup) \nb=b (tomato basil soup) \nc=c (Lentil soup):").lower()
                 if soups=="a":
                     print("enjoy your cream of mushroom soup")
                 elif soups=="b":
                     print("enjoy your tomato basil soup")
                 elif soups=="c":
                     print("enjoy your Lentil soup")
                 else:
                     print("Invalid choice.")

             elif vagetarian=="c":
                 main_course=input("In main course we have these: \na=a (veggie pasta) \nb=b(Margherita Pizza) \nc=c (Vegetable Stir-fry with Rice):").lower()
                 if main_course=="a":
                     print("enjoy your cream of veggie pasta")
                 elif main_course=="b":
                     print("enjoy your Margherita Pizza")
                 elif main_course=="c":
                     print("enjoy your Vegetable Stir-fry with Rice")
                 else:
                     print("Invalid choice.")

             else:
                 print("Invalid choice.")

         exit_choice=input("Would you like to place another order? (y/n):").lower()
         if exit_choice=="n":
             print("Thank you for visiting! Have a great day!")
             break
```

```python
    elif Food=="b":
        non_vagetarian=input("what non-vagetarian options would you like? \na=a (appetizers) \nb=b (soups) \nc=c (main courses):").lower()

        if non_vagetarian=="a":
            appetizers=input("In appetizers we have these: \na=a (chicken wings) \nb=b (prawn cocktail) \nc=c (meatball in tomato sauce):").lower()
            if appetizers=="a":
                print("enjoy your chicken wings")
            elif appetizers=="b":
                print("enjoy your prawn cocktail")
            elif appetizers=="c":
                print("enjoy your meatball in tomato sauce")
            else:
                print("Invalid choice.")

        elif non_vagetarian=="b":
            soups=input("In soups we have these: \na=a (Chicken Noodle Soup) \nb=b (Seafood Chowder) \nc=c (Hot and Sour Chicken Soup):").lower()
            if soups=="a":
                print("enjoy your Chicken Noodle Soup")
            elif soups=="b":
                print("enjoy your Seafood Chowder")
            elif soups=="c":
                print("enjoy your Hot and Sour Chicken Soup")
            else:
                print("Invalid choice.")

        elif non_vagetarian=="c":
            main_course=input("In main course we have these: \na=a (Grilled Chicken with Herb Butter) \nb=b (Beef Steak with Pepper Sauce) \nc=c (Shrimp
            if main_course=="a":
                print("enjoy your Grilled Chicken with Herb Butter")
            elif main_course=="b":
                print("enjoy your Beef Steak with Pepper Sauce")
            elif main_course=="c":
                print("enjoy your Shrimp Alfredo Pasta")
            else:
                print("Invalid choice.")

        else:
            print("Invalid Choice. Please select 'a' for vegetarian or 'b' for non-vegetarian.")


        exit_choice=input("Would you like to place another order? (y/n):").lower()
        if exit_choice=="n":
            print("Thank you for visiting! Have a great day!")
            break
```

```
welcome to Food Fusion
Are you a vegetarian or non Vagetarian?
a=a (vagetarian)
b=b (non vagetarian): b
what non-vagetarian options would you like?
a=a (appetizers)
b=b (soups)
c=c (main courses): c
In main course we have these:
a=a (Grilled Chicken with Herb Butter)
b=b (Beef Steak with Pepper Sauce)
c=c (Shrimp Alfredo Pasta): b
enjoy your Beef Steak with Pepper Sauce
Would you like to place another order? (y/n): y
Are you a vegetarian or non Vagetarian?
a=a (vagetarian)
b=b (non vagetarian): a
what vagetarian options would you like?
a=a (appetizers)
b=b (soups)
c=c (main courses): a
In appetizers we have these:
a=a (Garden Salad)
b=b (veggie spring rolls)
c=c (tomato bruschetta): a
enjoy your Garden Salad!
Would you like to place another order? (y/n): n
Thank you for visiting! Have a great day!
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[ ]: