C Programming Assessment Test

Project points (as it assessment Notes):

- Write a program to demonstrate a Food Billing System.
- Display the Menu using appropriate codes.
- For Menu kinds of Programming , use the core logic of Loops/conditional statements.
- You need to strictly follow the syntaxes of that logic which you are using.
- Write the necessary comments for better understanding to you as well as to the faculty.

Adhere to the coding principles

Execution Flow of the Project:

➔ First, display the food items available

➔ Then after the user can choose any of the item displayed

➔ Also take the quantity of selected food item by the customer, then ask the user that he/she wanna select more?

➔ If yes then again display the food items available and take an order from the customer. Here, you have to consider the total bill as the price of food items previously selected plus the price of new items added should display as a whole bill.

➔ If no then display the final bill on the screen

Code of this Test:

```c
#include <stdio.h>
#include<stdbool.h>
int main()
{
    int food, qnt, price, amt, tot = 0;           // Declare all variables

    printf("****   Rajwadi Restaurant  ****\n");        // one time print Heading

    bool status=true;                              // Default boolean value set
    while(status)
    {                                              // While loop start
        printf("----------   Menu   ----------\n");
        printf("1. Pizza      Price = 90rs/pcs \n");
        printf("2. Burger     Price = 50rs/pcs \n");
        printf("3. Dhosa      Price = 80rs/pcs \n");
        printf("4. Idli       Price = 40rs/pcs \n");
        printf("5. Sandwich   Price = 30rs/pcs \n");

        printf("\nPlease Enter your Choice... :");
        scanf("%d", &food);                        // Get order from customer, using number

        switch (food)                              // order print using switch case
        {
        case 1:
            printf("You have Selected Pizza.");
            price = 90;
            break;
        case 2:
            printf("You have Selected Burger.");
            price = 50;
            break;
        case 3:
            printf("You have Selected Dhosa.");
            price = 80;
            break;
        case 4:
            printf("You have Selected Idli.");
            price = 40;
            break;
        case 5:
            printf("You have Selected Sandwich.");
            price = 30;
            break;
```

```c
            default:
                printf("Please Restart and Enter valid choice");
                break;
        }

        printf("\nEnter food quantity :");
        scanf("%d", &qnt);                          // get food quantity from customer


        amt=price*qnt;                  // define the one menu total amount
        tot += amt;                     // define total bill amount

        printf("Amount = %d \n", amt);
        printf("Your Total Amount = %d \n\n", tot);

            char ord;
        printf("Do you want to place more Order..? yes=y & no=n :");
        scanf("%s", &ord);

        // after one order ask customer to can you more order or not
        // if a customer enter 'y' then print all the menu for next order, but enter 'n' to exit.

            switch(ord)
            {
            case 'y':
                    status=true;
                    break;

            case 'n':
                    status=false;
                    printf("... Thanks for Visit ...");
                    break;
            }
    }
    return 0;
}
```

Output:

```
****    Rajwadi Restaurant ****
---------    Menu    ----------
1. Pizza        Price = 90rs/pcs
2. Burger       Price = 50rs/pcs
3. Dhosa        Price = 80rs/pcs
4. Idli         Price = 40rs/pcs
5. Sandwich     Price = 30rs/pcs

Please Enter your Choice... :5
You have Selected Sandwich .
Enter food quantity :3
Amount = 90
Your Total Amount = 90

Do you want to place more Order..? yes=y & no=n :y
---------    Menu    ----------
1. Pizza        Price = 90rs/pcs
2. Burger       Price = 50rs/pcs
3. Dhosa        Price = 80rs/pcs
4. Idli         Price = 40rs/pcs
5. Sandwich     Price = 30rs/pcs

Please Enter your Choice... :1
You have Selected Pizza.
Enter food quantity :2
Amount = 180
Your Total Amount = 270

Do you want to place more Order..? yes=y & no=n :n
... Thanks for Visit ...
```