S.No: 1	Exp. Name: ***Project Module***	Date: 2024-06-13

Aim:

Project Module

Source Code:

hello.c

```c
//write your code here..
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <stdbool.h> // Include the bool data type

// Structure to represent a medicine
struct Medicine {
    char name[50];
    int quantity;
    float price;
};

// Function to add a new medicine to the inventory
void addMedicine(struct Medicine inventory[], int *numMedicines) {
    printf("Enter medicine name: ");
    scanf("%s", inventory[*numMedicines].name);
    printf("Enter quantity: ");
    scanf("%d", &inventory[*numMedicines].quantity);
    printf("Enter price: ");
    scanf("%f", &inventory[*numMedicines].price);
    (*numMedicines)++;
}

// Function to collect medicine and update the bill amount
void collectMedicine(struct Medicine inventory[], int numMedicines, float
*totalBill) {
    char name[50];
    int quantity;
    printf("Enter medicine name to collect: ");
    scanf("%s", name);
    printf("Enter quantity to collect: ");
    scanf("%d", &quantity);

    for (int i = 0; i < numMedicines; i++) {
        if (strcmp(inventory[i].name, name) == 0) {
            if (inventory[i].quantity >= quantity) {
                *totalBill += inventory[i].price * quantity;
                inventory[i].quantity -= quantity;
                printf("Collected %d %s.\n", quantity, name);
                return;
            } else {
                printf("Insufficient stock of %s.\n", name);
                return;
            }
        }
    }
    printf("%s not found in inventory.\n", name);
}
```

```
    printf("Name\t\tQuantity\tPrice\n");
    for (int i = 0; i < numMedicines; i++) {
        printf("%s\t\t%d\t\t$%.2f\n", inventory[i].name, inventory[i].quantity,
inventory[i].price);
    }
}

int main() {
    struct Medicine inventory[100];
    int numMedicines = 0;
    float totalBill = 0;
    int choice;
    bool invalidInput; // Variable to track if input is invalid

    do {
        invalidInput = false; // Reset invalid input flag
        printf("\nPharma Store Management System\n");
        printf("1. Add Medicine\n");
        printf("2. Collect Medicine\n");
        printf("3. Display Inventory\n");
        printf("4. Display Bill\n");
        printf("5. Exit\n");
        printf("Enter your choice: ");

        if (scanf("%d", &choice) != 1) { // Check if input is not an integer
            printf("Invalid input. Please enter an integer.\n");
            invalidInput = true; // Set invalid input flag
            while (getchar() != '\n'); // Clear the input buffer
        }

        if (!invalidInput) { // Only execute switch statement if input is valid
            switch (choice) {
                case 1:
                    addMedicine(inventory, &numMedicines);
                    break;
                case 2:
                    collectMedicine(inventory, numMedicines, &totalBill);
                    break;
                case 3:
                    displayInventory(inventory, numMedicines);
                    break;
                case 4:
                    displayBill(totalBill);
                    break;
                case 5:
                    printf("Exiting...\n");
                    exit(0);
                default:
                    printf("Invalid choice. Please try again.\n");
```

Execution Results - All test cases have succeeded!

Test Case - 1
User Output
Hello World