

A Micro Project Report

on

Problem Solving using C Language

Submitted by
DUDDUKURI SUSMITHA (23471A05DM)



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

NARASARAOPETA ENGINEERING COLLEGE: NARASARAOPET
(AUTONOMOUS)

Accredited by NAAC with A+ Grade and NBA under Tier-1

NIRF rank in the band of 201-300 and is an ISO 9001:2015 certified Approved by AICTE, New Delhi, Permanently affiliated to JNTU Kakinada, Approved by AICTE, Accredited by NBA and accredited 'A+' grade by NAAC Narasaraopet-522601, Palnadu(Dt.),

Andhra Pradesh, India

2024-2025

NARASARAOPETA ENGINEERING COLLEGE: NARASARAOPET

(AUTONOMOUS)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that **Duddukuri Susmitha**, Roll No: **23471A05DM**, a Second Year Student of the Department of Computer Science and Engineering, has completed the Micro Project Satisfactorily in “Problem Solving using C Language” for the Academic Year 2024-2025..

Project Co-Ordinator

Dr. Rama Krishna. Eluri, M.Tech., Ph.D.

Asst.Professor

HEAD OF THE DEPARTMENT

Dr. S. N. Tirumala Rao, M.Tech., Ph.D.

Professor

INDEX

S.No	Description
1.	C program for Departmental Store and Management (Stock Management and Billing System).

DEPARTMENTAL STORE and MANAGEMENT (Stock Management and Billing System)

AIM:

Write a C program for Departmental Store and Management (Stock Management and Billing System).

Source code:

```
#include<stdio.h>

#include <conio.h>

struct Item
{
    char name[30];
    int quantity;
    float price;
};

int main()
{
    struct Item items[5];
    int count = 0, choice, qty;
    float total = 0.0;
    printf("***Stock Management and Billing System***\n");
    while (1)
    {
```

```
printf("1. Add Item\n2. Display Items\n3. Generate Bill\n4. Exit\n");
printf("Enter choice: ");
scanf("%d", &choice);
if (choice == 1 && count < 5)
{
    printf("Enter item name: ");
    scanf("%s", items[count].name);
    printf("Enter quantity: ");
    scanf("%d", &items[count].quantity);
    printf("Enter price: ");
    scanf("%f", &items[count].price);
    printf("Item added successfully.\n");
    count++;
}
else if (choice == 2)
{
    printf("\nItems in Stock:\nName\tQuantity\tPrice\n");
    for (int i = 0; i < count; i++)
        printf("%s\t%d\t\t%.2f\n", items[i].name, items[i].quantity, items[i].price);
}
else if (choice == 3)
{
    printf("\nGenerating Bill:\n");
    for (int i = 0; i < count; i++)
```

```
{
    printf("Enter quantity for %s: ", items[i].name);
    scanf("%d", &qty);
    if (qty <= items[i].quantity)
    {
        total += qty * items[i].price; items[i].quantity -= qty;
    }
    else
    {
        printf("Insufficient stock for %s.\n", items[i].name);
    }
}

printf("Total Bill: %.2f\n", total);
total = 0; // Reset total for next billing
}

else if (choice == 4)
{
    printf("Exiting...\n");
    break;
}

else
{
    printf("Invalid choice or maximum items reached.\n");
}
```

```
}  
return 0;  
}
```

Input:

Stock Management and Billing System

1. Add Item
2. Display Items
3. Generate Bill
4. Exit

Enter choice: 1

Enter item name: cake

Enter quantity: 2

Enter price: 100

Output:

Item added successfully.

Input:

1. Add Item
2. Display Items
3. Generate Bill
4. Exit

Enter choice: 1

Enter item name: chocos

Enter quantity: 5

Enter price: 10

Output:

Item added successfully.

Input:

1. Add Item
2. Display Items
3. Generate Bill
4. Exit

Enter choice: 2

Output:

Items in Stock:

Name	Quantity	Price
cake	2	100.00
chocos	5	10.00

Input:

1. Add Item
2. Display Items
3. Generate Bill
4. Exit

Enter choice: 3

Generating Bill:

Enter quantity for cake: 2

Enter quantity for chocos: 5

Output:

Total Bill: 250.00

Input:

1. Add Item
2. Display Items
3. Generate Bill
4. Exit

Enter choice: 4

Output:

Exiting...

=== Code Execution Successful ===

INPUT:

Stock Management and Billing System

1. Add Item
2. Display Items
3. Generate Bill
4. Exit

Enter choice: 1

Enter item name: cake

Enter quantity: 2

Enter price: 10

OUTPUT:

Item added successfully.

INPUT:

1. Add Item

2. Display Items

3. Generate Bill

4. Exit

Enter choice: 1

Enter item name: chocos

Enter quantity: 5

Enter price: 10

OUTPUT:

Item added successfully.

INPUT:

1. Add Item

2. Display Items

3. Generate Bill

4. Exit

Enter choice: 2

OUTPUT:

Items in Stock:

Name	Quantity	Price
cake	2	100.00
chocos	5	10.00

INPUT:

1. Add Item

2. Display Items

3. Generate Bill

4. Exit

Enter choice: 3

OUTPUT:

Generating Bill:

Enter quantity for cake: 2

Enter quantity for chocos: 5

Total Bill: 250.00

INPUT:

1. Add Item

2. Display Items

3. Generate Bill

4.Exit

Enter choice: 4

OUTPUT:

Exiting...

=== Code Execution Successful ===