**A Micro Project Report**

**on**

**Problem Solving using C Language**

Submitted by

#### SHAIK SANIYA (23471A05AT)



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**NARASARAOPETA ENGINEERING COLLEGE: NARASARAOPET (AUTONOMOUS)**

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

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**2024-20****25**

**NARASARAOPETA ENGINEERING COLLEGE: NARASARAOPET**

**(AUTONOMOUS)**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**



**CERTIFICATE**

**This is to certify that SHAIK SANIYA, Roll No: 23471A05AT, 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 HEAD OF THE DEPARTMENT

**Mr. M. Venkata Rao, M.Tech. Dr. S. N. Tirumala Rao, M.Tech., Ph.D.**

**Asst. Professor Professor**

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| --- | --- |
| **S.No** | **Description** |
|  | Departmental store management system (stock management and billing system) |



**AIM**:

**Write a C program to given a departmental store management system(stock management and billing system)**

**#include <stdio.h>**

**#include <string.h>**

**struct Item**

**{**

**char name[30];**

**int quantity;**

**int price;**

**};**

**int main()**

**{**

**struct Item items[5];**

**int count = 0, choice, qty;**

**float total = 0.0;**

**while (1)**

**{**

**printf("\n1. 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("%d",&items[count].price);**

**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%d\t\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)**

**{**

**break;**

**}**

**else**

**{**

**printf("Invalid choice or maximum items reached.\n");**

**}**

**}**

**return 0;**

**}**

**Input:**

1.Add item

2.Display items

3.Generate Bill

4.exit

enter choice:1

enter item name:bread

enter quantity:2

enter price:50

1.Add item

2.Display item

3.Generate Bill

4.exit

enter choice:1

enter item name: biscuit

enter quantity:5

enter price:25

1.Add item

2.Display item

3.Generate Bill

4.exit

enter choice:2

items in stock:

Name Quantity Price

Bread 2 50

Biscuit 5 25

1.Add item

2.Display items

3.Generate Bill

4.exit

enter choice:3

Generating Bill:

Enter the quantity for bread:5

Insufficient stock for bread.

Enter quantity for biscuit:5

Total Bill: 125.00

1.Add item

2.Display Items

3. Generate Bill

4. Exit

Enter choice:4

