

S.R.M. UNIVERSITY A.P.

Introduction to Programming Using C

CSE 105 L

Project Report on

"HOSTEL MANAGEMENT SYSTEM"

submitted in partial fulfilment for the award of the degree in

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by:

GROUP DETAILS

JOYDEEP GHOSH (21110010557)

NAGASAI CHALLAPALLI (21110010558)

NARENDER B (21110010559).

Under the guidance of

Mrs. Pavithra B

Project Mentor.

ABSTRACT

Hostel Management System is a project which uses C programming language. The project helps to allocate hostel facility to the students . It is helpful for the accountant to manage the hostel. Our project is a command line project. This project takes the input in the form of questions and gives the output in the form of amount. This project also asks if the student wants some other facility like food facility, gym facility, etc. .This project also tells the amount of fees we have to pay.

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CHAPTER 1

INTRODUCTION

Hostel Management System is a project which uses C programming language. Hostel management helps students by filling an online form for accommodation and other things. It helps them from manual work. We design this system so it that it doesn't require an efficient person to handle and calculate the things. This system automatically calculates all the bills for allotted students.

C is a general purpose, procedural computer programming language supporting structured programming, lexical variable scope, and recursion, with a static type system. By design, C provides constructs that map efficiently to typical machine instructions. It has found lasting use in applications previously coded in assembly language. Such applications include operating systems and various application software for computer architectures that range from supercomputers to PLCs and embedded systems.

CHAPTER 2

OBJECTIVE

- *The main objective of this project is to provide hostel rooms to the student .*
- *The project will also provide different facility to the student according to their requirement such as food facility, gym facility, internet facility , etc.*
- *The program will also show the fees what the students have to pay according to the facility they have chosen.*
- *The program also provides discount to some of the eligible students .*

CHAPTER 3

SYSTEM REQUIREMENTS

3.1. HARDWARE REQUIREMENTS:

Hardware requirements often specify the operating system version, processor type, memory size, available disk space and additional peripherals.

- | | |
|----------------------|------------|
| 1. Operating System: | Windows 10 |
| 2. Hard Disk: | 1 Tb |
| 3. Processor: | i5/i7 |

3.2. SOFTWARE REQUIREMENTS:

The software requirements are description of features and functionalities of the target system.

- | | |
|-------------------|----------------------------|
| 1. Language Used: | C Language |
| 2. IDE : | Dev C++ / or any other IDE |

CHAPTER 4

ALGORITHM

STEP 1 : START

STEP 2 : PRINT "WELCOME"

STEP 3 : DO YOU WANT A HOSTEL ? IF 'YES' THEN GO TO 'STEP 4' OR ELSE IF 'NO' GO TO 'STEP 14'

STEP 4 : ENTER YOUR NAME

STEP 5 : ENTER YOUR SECTION

STEP 6 : ENTER YOUR ROLL NUMBER

STEP 7 : ARE YOU VACCINATED ? IF YES THEN TOTAL AMOUNT=X

IF NO THEN PROCEED TO STEP 14 .

STEP 8 : DO YOU WANT LUXURY ROOM (2 SHARE BEDROOM WITH AC)? (FEES =Y), IF YES THEN TOTAL AMOUNT = TOTAL AMOUNT+Y AND THEN PROCEED

TO NEXT STEP

IF NO THEN THERE IS NO CHANGE IN TOTAL AMOUNT AND PROCEED TO NEXT STEP.

STEP 9 : DO YOU WANT FOOD FACILITY ? IF YES THEN TOTAL AMOUNT = TOTAL AMOUNT + F AND THEN PROCEED TO NEXT STEP,

IF NO, THEN THERE IS NO CHANGE IN THE TOTAL AMOUNT AND PROCEED TO NEXT STEP.

STEP 10 : DO YOU WANT INTERNET FACILITY (FEES = I)?

IF YES THEN TOTAL AMOUNT = TOTAL AMOUNT + I, AND PROCEED TO NEXT STEP

IF NO, THEN THERE IS NO CHANGE IN TOTAL AMOUNT AND PROCEED TO NEXT STEP.

STEP 11: DO YOU WANT GYM FACILITY (FEES = G)?

IF YES, THEN TOTAL AMOUNT = TOTAL AMOUNT + G, AND PROCEED TO NEXT STEP

IF NO, THEN THERE IS NO CHANGE IN TOTAL AMOUNT AND PROCEED TO NEXT STEP.

STEP 12 : IS YOUR FAMILY INCOME ≤ 500000 ,

IF YES THEN TOTAL AMOUNT = TOTAL AMOUNT - 10 % , AND PROCEED TO NEXT STEP,

IF NO, THEN THERE IS NO CHANGE IN TOTAL AMOUNT AND PROCEED TO NEXT STEP.

STEP 13 : PRINT " AMOUNT TO BE PAID = TOTAL AMOUNT "

STEP 14 : PRINT " THANK YOU "

STEP 15 : DO YOU WANT TO REGISTER ANOTHER CANDIDATE.

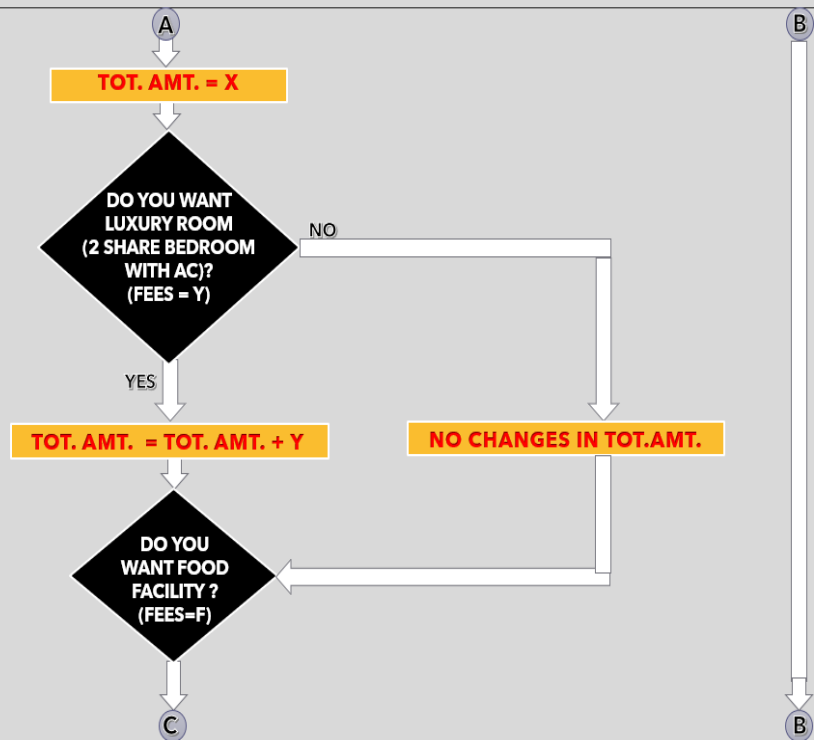
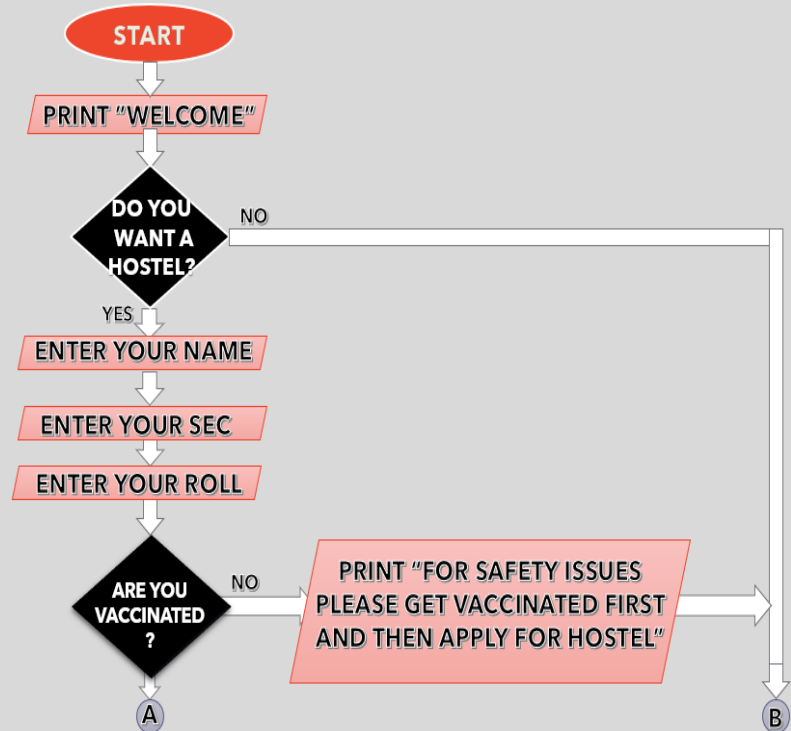
IF YES GO TO STEP 1,

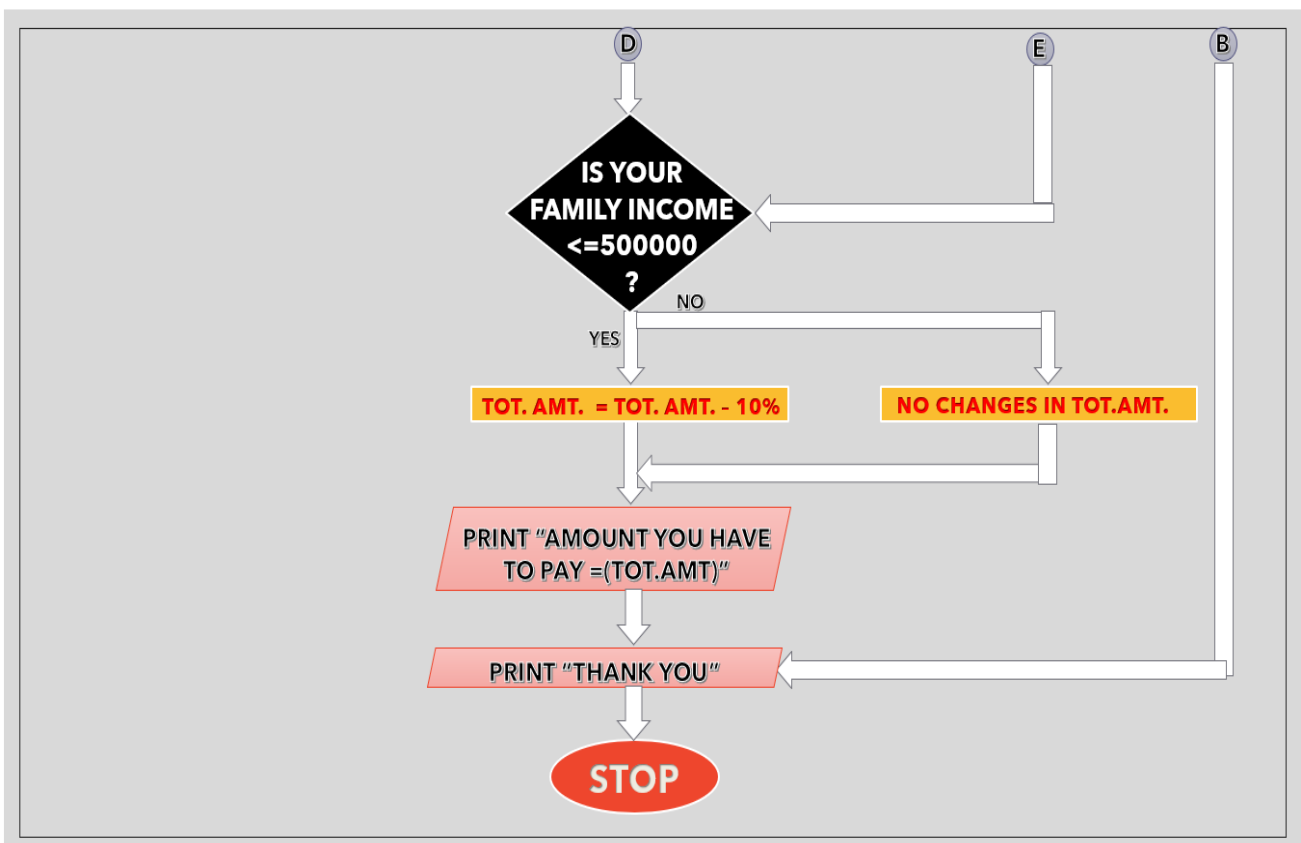
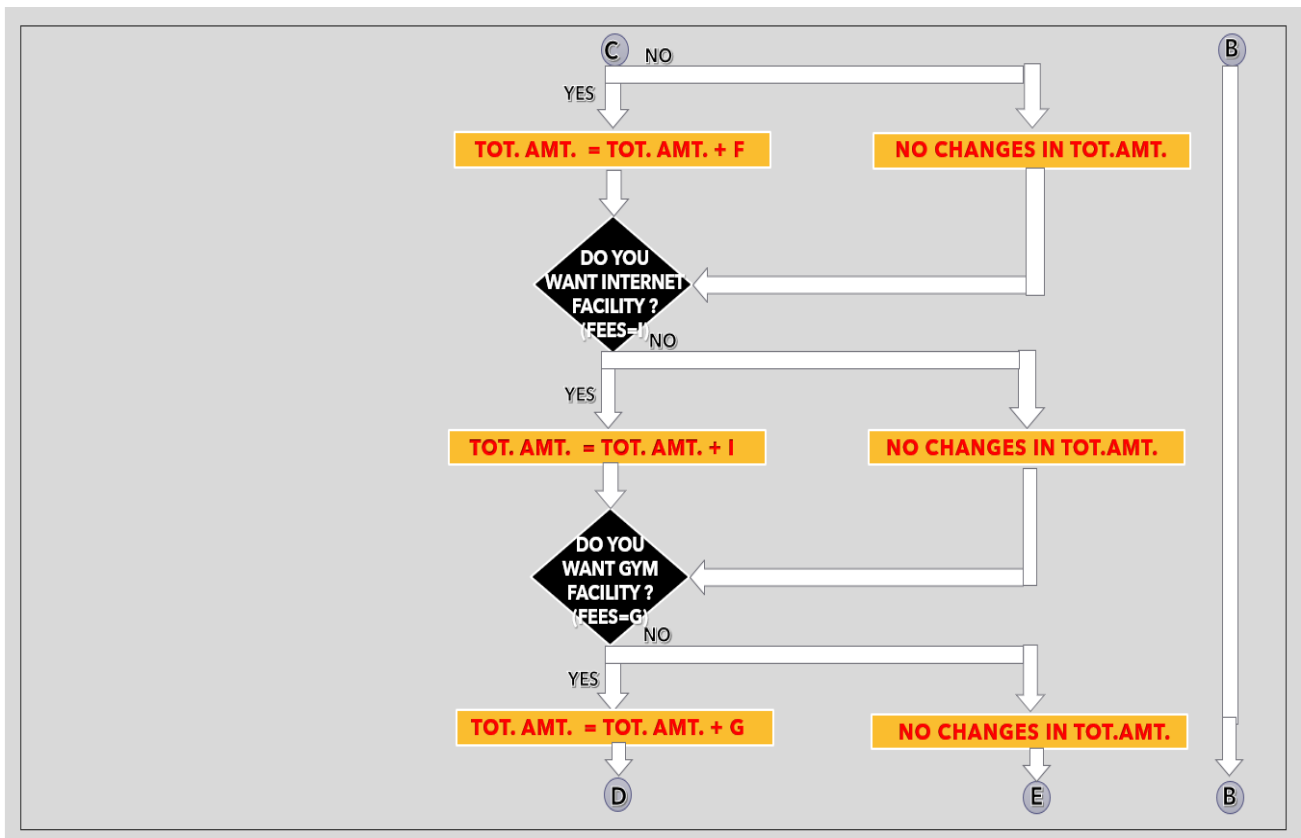
IF NO, GOT TO STEP 16.

STEP 16 : STOP

CHAPTER 5

FLOWCHART :





CODE IMPLEMENTATION:

```
#include<stdio.h>

#include<stdlib.h>

#include<conio.h>

int main()

{

    start:

        int A,B,C,D,E,F,G,H,I,J,total,temp,rollno[15],phone_no[10],father_phoneno[10];

        char name[100],sec,father_name[50],mother_name[50],gender[10];


        system("color A");

        printf("\n\t*****");

        printf("\n\t**          **");

        printf("\n\t** WELCOME TO SRM HOSTEL **");

        printf("\n\t**          **");

        printf("\n\t*****");

        printf("\n\tAre You VACCINATED?\n\tGive:1 for Yes\n\t  0 for No\n\t");

        scanf("%d",&A);


        if(A==1)

        {

            printf("\n\t*****");

            printf("\n\t*YOU ARE ELIGIBLE TO JOIN THE HOSTEL!*");

            printf("\n\t*****");

            printf("\n\tDo you want Hostel?\n\tGive:1 for Yes\n\t  0 for No\n\t");

            scanf("%d",&B);


            if(B==1)

            {

                printf("\n\t*****");

                printf("\n\t*****");
```

```

printf("\n\t1.Enter Your Name:");
scanf("%s",&name);
printf("\n\t2.Enter Your Section:");
scanf("%s",&sec);
printf("\n\t3.Enter Your RollNumber:");
scanf("%d",&rollno);
printf("\n\t4.Enter Your father_name:");
scanf("%s",&father_name);
printf("\n\t5.Enter Your mother_name:");
scanf("%s",&mother_name);
printf("\n\t6.Enter Your father_phoneno:");
scanf("%d",&father_phoneno);
printf("\n\t7.Enter Your phone_no:");
scanf("%d",&phone_no);
printf("\n\t8.Enter Your gender:");
scanf("%s",gender);
printf("\n\t*****");
printf("\n\t*****");

total=2000;
temp=total;
printf("\n\tNormal room fee amount is%d",total);
printf("\n\tDo You Want Luxury Room(2 Share Bedroom with AC)?Fees=1000\n\tGive:1 for Yes\n\t
0 for No\n\t");
scanf("\n%d",&C);
if(C==1)
{
total=total+1000;
printf("\n\tTotal amount is%d",total);
}
printf("\n\tDo you want Food Facility?Fees=500\n\tGive:1 for Yes\n\t 0 for No\n\t");
scanf("\n%d",&D);
if(D==1)

```

```

{
    total=total+500;
    printf("\n\tTotal amount is %d",total);
}

printf("\n\tDo you want Internet Facility?Fees=500\n\tGive:1 for Yes\n\t 0 for No\n\t");
scanf("\n%d",&E);
if(E==1)
{
    total=total+500;
    printf("\n\tTotal amount is%d",total);
}

printf("\n\tDo you want GYM?Fees=300\n\tGive:1 for Yes\n\t 0 for No\n\t");
scanf("%d",&F);
if(F==1)
{
    total=total+300;
    printf("\n\tTotal amount is%d",total);
}

printf("\n\tIs your family Income<500000?\n\tGive:1 for Yes\n\t 0 for No\n\t");
scanf("\n%d",&G);
if(G==1)
{
    H=0.1*total;

    I=total-H;

    printf("\n\tAMOUNT TO BE PAID=%d",I);
    printf("\n\t");
    printf("\n\t");
    printf("\n\t*****");
    printf("\n\t**  THANK YOU  **");
    printf("\n\t*****");
    printf("\n\t-----*-----");
}

```

```

    }

    else
    {
        l=total;

        printf("\n\tAMOUNT TO BE PAID=%d",l);
        printf(" \n\t          ");
        printf(" \n\t          ");
        printf("\n\t*****");
        printf("\n\t**  THANK YOU  **");
        printf("\n\t*****");
        printf("\n\t-----*-----");

    }

}

else
{

        printf("\n\tPLEASE VISIT THE HOSTEL AGAIN");

        printf("\n\t*****");
        printf("\n\t**  THANK YOU  **");
        printf("\n\t*****");

        printf(" \n\t          ");

        printf(" \n\t          ");
        printf("\n\t-----*-----");

}

}

else
{

```

```

        printf("\tPLEASE GET VACCINATED!!");
printf(" \n\t          ");
printf(" \n\t          ");
printf("\n\t*****");
printf("\n\t**    THANK YOU    **");
printf("\n\t*****");

```

```

    }

```

```

printf("\n\t-----");
printf("\n\tWANT TO REGISTER A NEW CANDIDATE?\n\tGive:1 for Yes\n\t  0 for No\n\t");
    scanf("%d",&J);
    if(J==1)
        goto start;

```

```

}

```

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CODE OUTPUT:

```
*****
**                               **
**  WELCOME TO SRM HOSTEL  **
**                               **
*****

Are You VACCINATED?
Give:1 for Yes
    0 for No

0
PLEASE GET VACCINATED!!

*****
**           THANK YOU           **
*****
```

```
-----
WANT TO REGISTER A NEW CANDIDATE?
Give:1 for Yes
    0 for No

0
```

```
-----
Process exited after 7.841 seconds with return value 0
Press any key to continue . . .
```

** **

** WELCOME TO SRM HOSTEL **

** **

Are You VACCINATED?

Give:1 for Yes

0 for No

1

YOU ARE ELIGIBLE TO JOIN THE HOSTEL!

Do you want Hostel?

Give:1 for Yes

0 for No

1

1.Enter Your Name:Narender

2.Enter Your Section:i

3.Enter Your RollNumber:559

4.Enter Your father_name:arjun

5.Enter Your mother_name:kumari

6.Enter Your father_phoneno:8790

8.Enter Your gender:male

Normal room fee amount is2000

Do You Want Luxury Room(2 Share Bedroom with AC)?Fees=1000

Give:1 for Yes

0 for No

1

Total amount is3000

Do you want Food Facility?Fees=500

Give:1 for Yes

0 for No

0

Do you want Internet Facility?Fees=500

Give:1 for Yes

0 for No

0

Do you want GYM?Fees=300

Give:1 for Yes

0 for No

1

Total amount is3300

Is your family Income<500000?

Give:1 for Yes

0 for No

```
Total amount is3300
Is your family Income<500000?
Give:1 for Yes
      0 for No
1
```

```
AMOUNT TO BE PAID=2970
```

```
*****
**      THANK YOU      **
*****
```

```
-----*-----
-----
WANT TO REGISTER A NEW CANDIDATE?
Give:1 for Yes
      0 for No
0
```

```
-----
rocess exited after 133.8 seconds with return value 0
ress any key to continue . . .
```