K L UNIVERSITY

FRESHMAN ENGINEERING DEPARTMENT

A Project Based Lab Report

0n

HOTEL MANAGEMENT SYSTEM

SUBMITTED BY:

I.D NUMBER: NAME:

2000031007 THONDEPU SAI MRUDHULA

UNDER THE ESTEEMED GUIDANCE OF

A.KRISHNA

ASSISTANT PROFESSOR



KL UNIVERSITY

Green fields, Vaddeswaram – 522 502 Guntur Dt., AP, India.

DEPARTMENT OF BASIC ENGINEERING SCIENCES



CERTIFICATE

This is to certify that the project based laboratory report entitled "HOTEL MANAGEMENT SYSTEM" submitted by Ms. THONDEPU SAI MRUDHULA bearing Regd. No. 2000031007 to the **Department of Basic Engineering Sciences, KL University** in partial fulfillment of the requirements for the completion of a project based Laboratory in "COMPUTATIONAL THINKING FOR DESIGN" course in I B Tech I Semester, is a bonafide record of the work carried out by him/her under my supervision during the academic year 2020 – 2021.

PROJECT SUPERVISOR

HEAD OF THE DEPARTMENT

A.KRISHNA

Dr. D.HARITHA

ACKNOWLEDGEMENTS

It is great pleasure for me to express my gratitude to our honorable President Sri.

Koneru Satyanarayana, for giving the opportunity and platform with facilities in

accomplishing the project based laboratory report.

I express the sincere gratitude to our Director Dr. A. Jagdeesh for his administration

towards our academic growth.

I express sincere gratitude to our Coordinator and HOD-BES Dr. D.Haritha for her

leadership and constant motivation provided in successful completion of our academic

semester. I record it as my privilege to deeply thank for providing us the efficient faculty and

facilities to make our ideas into reality.

I express my sincere thanks to our project supervisor **A.KRISHNA** for his/her novel

association of ideas, encouragement, appreciation and intellectual zeal which motivated us to

venture this project successfully.

Finally, it is pleased to acknowledge the indebtedness to all those who devoted

themselves directly or indirectly to make this project report success.

NAMES: THONDEPU SAI MRUDHULA,

Regd. No.'s:2000031007

ABSTRACT

My project title is hotel management system. In this project I used structures to pointers and functions. I used the concepts regarding hotel management.

The concepts used by me are availability, features of room, room allocation, the details of customer, room deallocation, restaurant, and billing. I used the concepts in my project I used switch case and structures and functions I used pointers for structures.

In this project the question is about to construct a application of hotel management system. We need to use the structures to pointers and function so I used the structure pointers. In structure I defined the inputs and used the structure variable as pointer

INDEX

S.NO	TITLE	PAGE NO	
1	Introduction	6	
2	Aim of the Project	7	
2.1	Advantages & Disadvantages	7	
2.2	Future Implementation	7	
3	Software & Hardware Details	8	
4	Algorithm for each module	9	
5	Data Flow Diagram	13	
6	Implementation	17	
7	Output/screenshots	26	
8	Conclusion	29	

INTRODUCTION

Project is about hotel management system this project

	evelop an application for hotel management system with the following modules using structures, pointers to ructure variables, passing structure pointers to function.
1.	Get availability
2.	Features of room
3.	Room allocation
4.	Show customer details
5.	Room deallocation
6.	Restaurant
7.	Billing.
М	ake your own assumptions for this project, design and implement hotel management system.

AIM: To create a simple c program on the hotel management system using structure pointer and functions
Advantages:- THIS PROJECT IS USEFUL TO THE HOTELS TO GET THE DETAILS OF THE PERSON STAYED IN THE HOTEL
Disadvantages:- The disadvantages are like we can do this project without using only structure to pointers we can do it without using structures to pointer.
Future enhancements:- we can even do this project using other languages like c++ ,java, in future it may help full to me. This project will help in solving the tough problems of structures

SYSTEM REQUIREMENTS

> SOFTWARE REQUIREMENTS:

The major software requirements of the project are as follows:

Language : C language

Operating system: Windows 10.

> HARDWARE REQUIREMENTS:

The hardware requirements that map towards the software are as follows:

RAM :flip-flops

Processor : Dev c++

ALGORITHM

Algorithm for hotel management system

Step 1: start

Step 2: Ask for the values.

Step 3: Take the values.

Step 4:

Select a option from the below

1.availability

2.features of room

3.room allocation

4.show customer details

5.room deallocation

6.restaurant

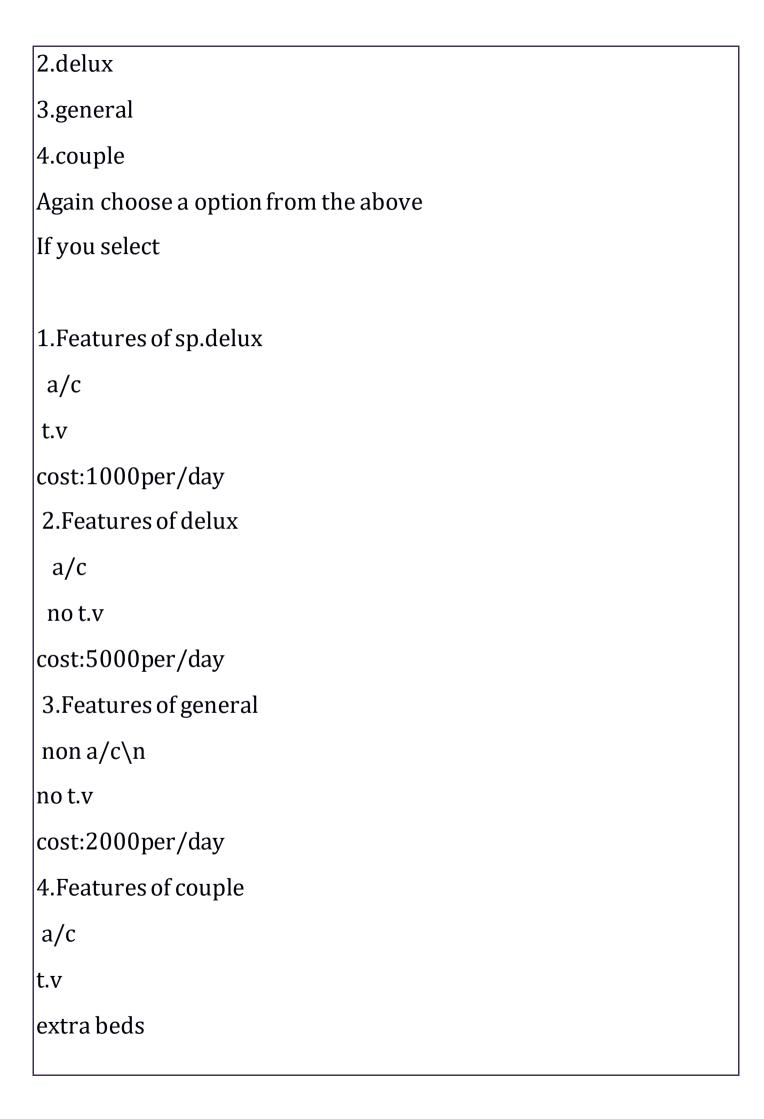
7.billing

If u select the 1st option then its shows what are the available rooms in the hotel like

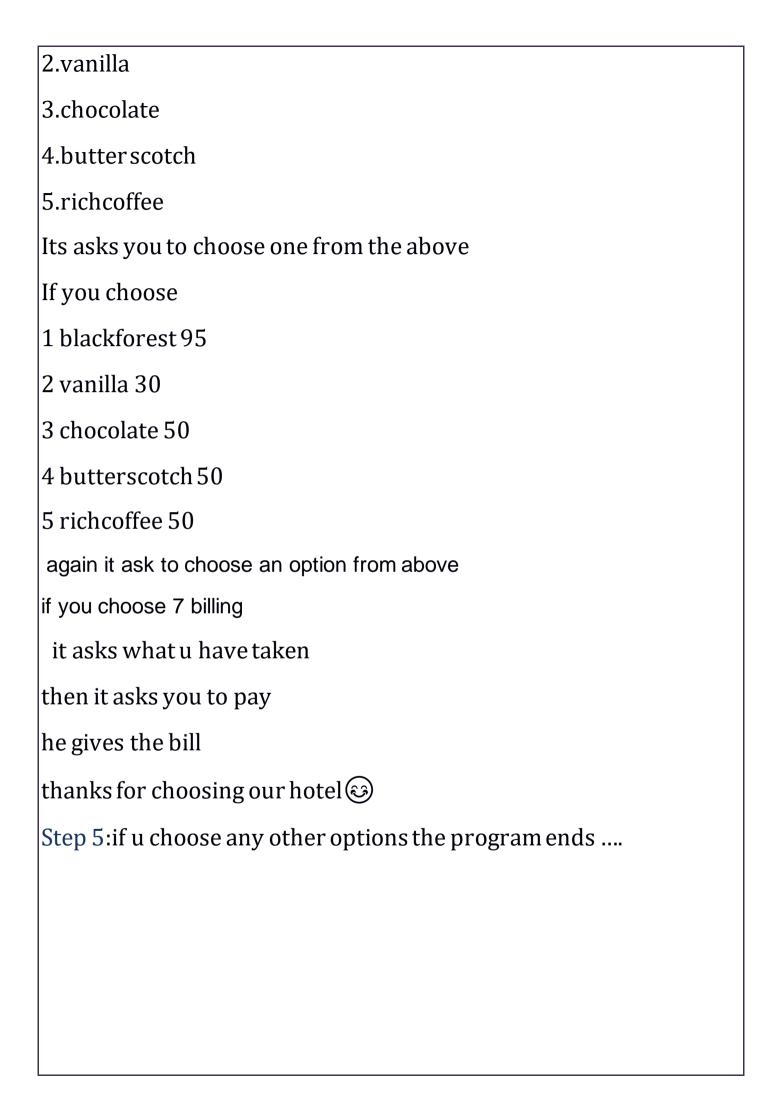
Room	Room type	availability
101	Delux	available
102	a/c room	available
103	Non a/c	available
104	general	available

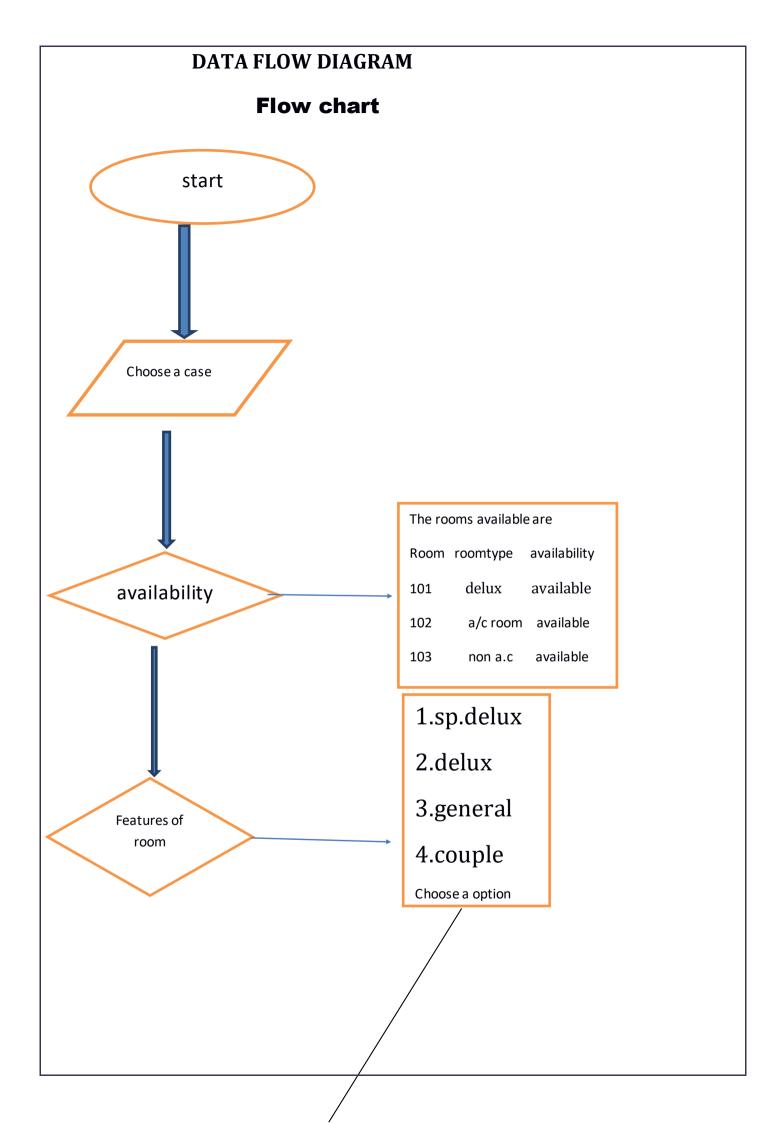
If u select the 2nd option it shows that features of the room like

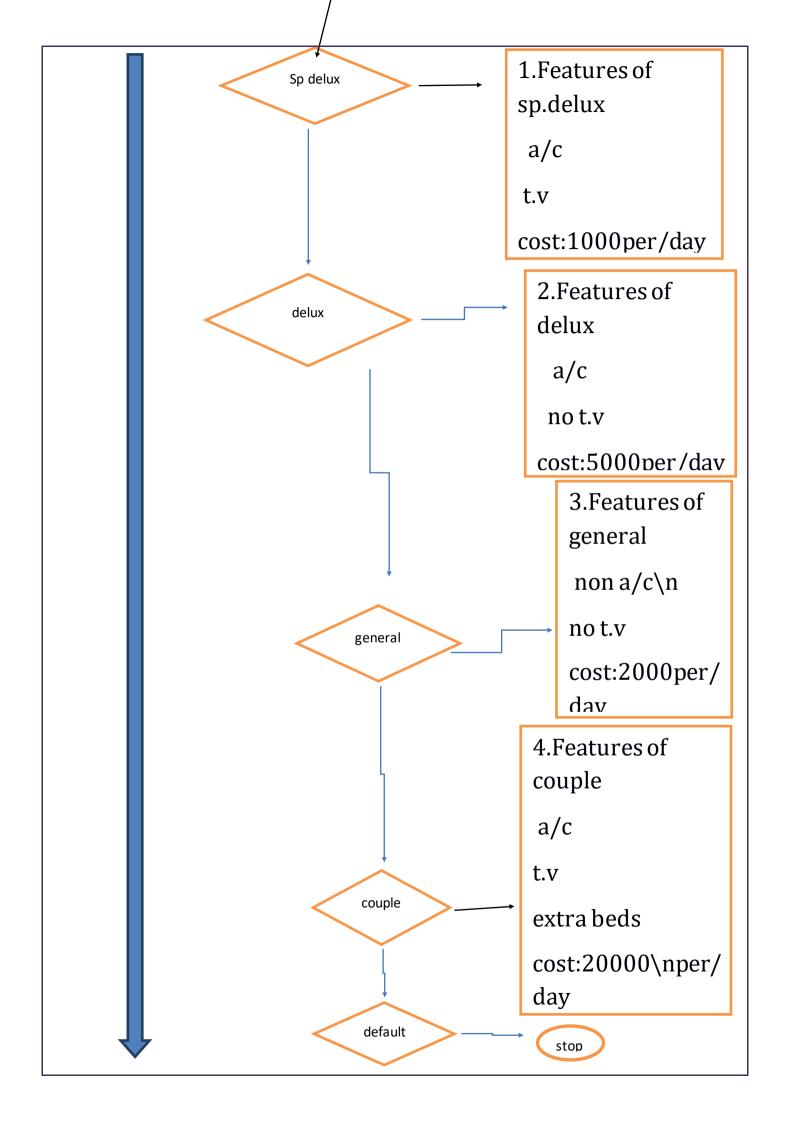
1.sp.delux

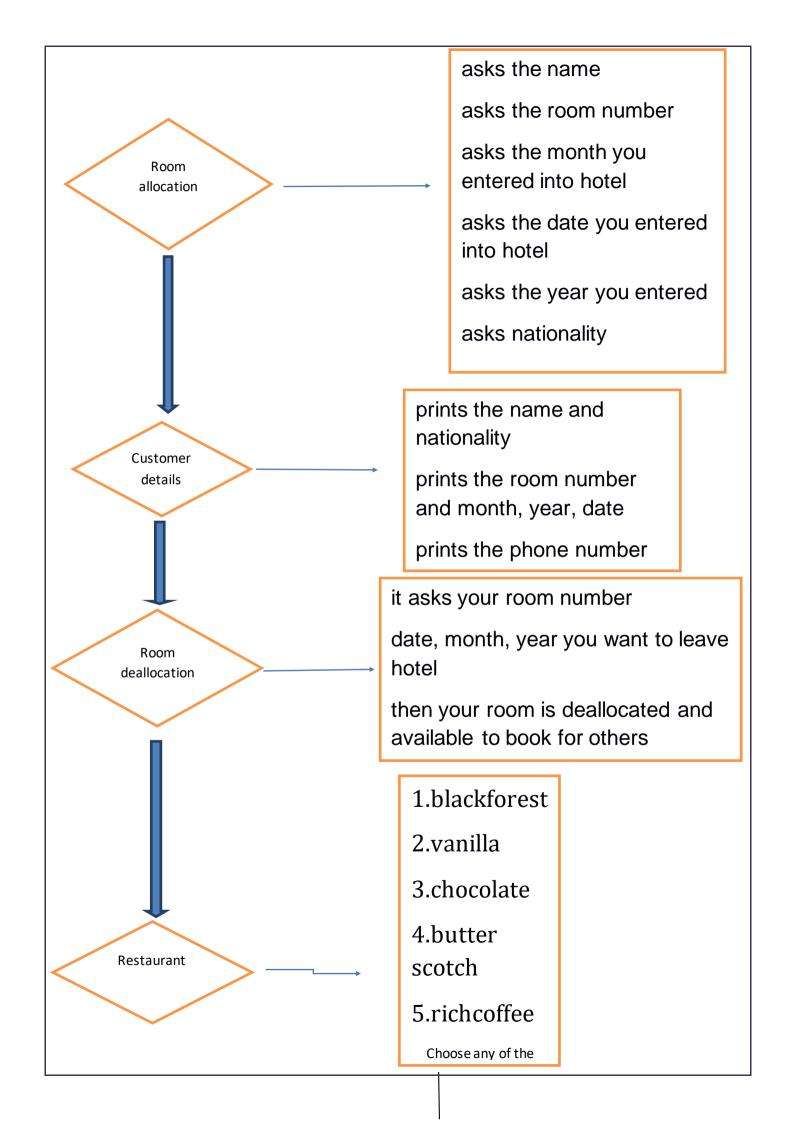


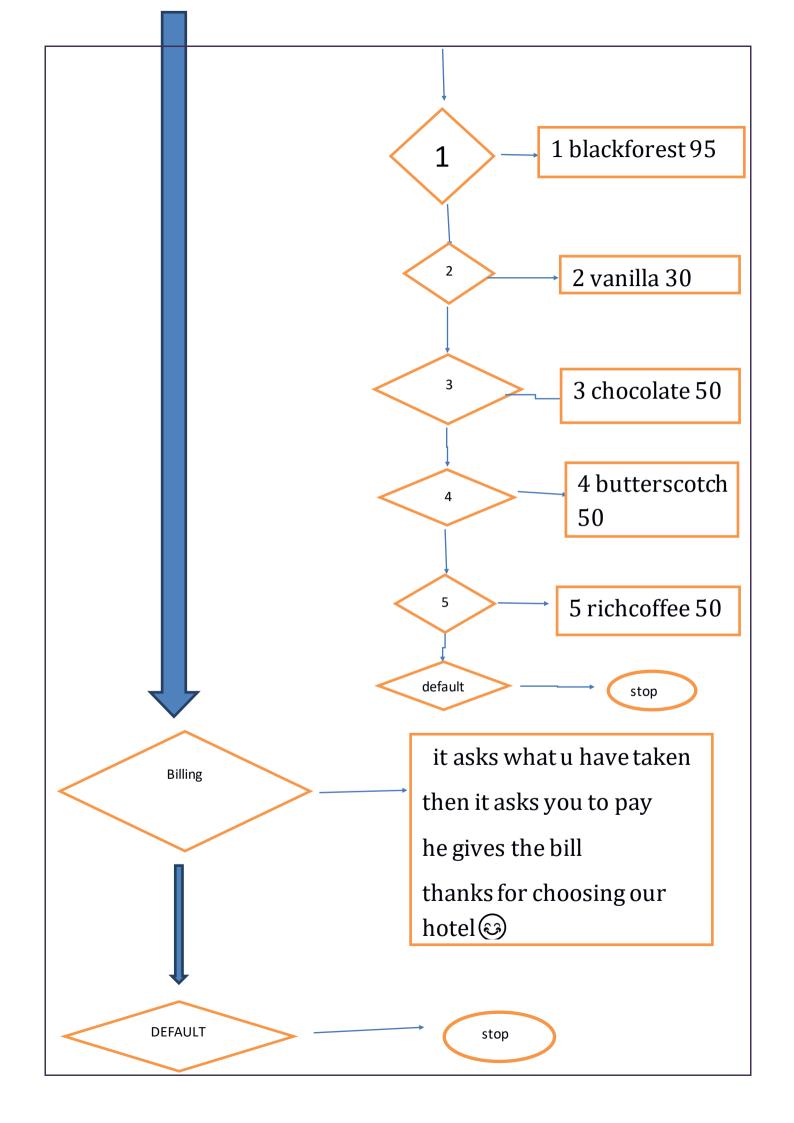
cost:20000\nper/day if not the program stops again it ask to choose an option from above if u choose 3 room allocation it asks you the details of you asks the name asks the room number asks the month you entered into hotel asks the date you entered into hotel asks the year you entered asks nationality asks phone number again it ask to choose an option from above if you choose 4 it asks to show the customer details prints the name and nationality prints the room number and month, year, date prints the phone number again it ask to choose an option from above if you choose 5 room deallocation it asks your room number date, month, year you want to leave hotel then your room is deallocated and available to book for others again it ask to choose an option from above if you choose 6 restaurant 1.blackforest











IMPLEMENTATION

Code:

```
#include<stdio.h>
#include<stdlib.h>
#include<string.h>
void get_availability();
void Features_of_room();
void Room_allocation();
void Show_customer_details();
void Room_deallocation();
void Restaurant();
void Billing();
struct hotel
{
    int roomnumber;
    char name[200];
    int phonenumber[20];
    char nationality[15];
    int yearin;
    int monthin;
    int datein;
    int outyear;
```

```
int outmonth;
    int outdate;
    int rent;
}*a;
int main()
{
    int ch;
    while(1)
    {
  printf("1.Get availability\n");
  printf("2.Features of room\n");
 printf("3.Room allocation\n");
  printf("4.Show customer details\n");
    printf("5. Room deallocation\n");
  printf("6.Restaurant\n");
    printf("7. Billing\n");
    printf("8. exit\n");
    printf("choose any number from above\n");
    scanf("%d",&ch);
    switch(ch)
    {
         case 1:get_availability();
```

```
break;
         case 2:Features_of_room();
         break;
         case 3:Room_allocation();
         break;
         case 4:Show_customer_details();
         break;
         case 5:Room_deallocation();
         break;
         case 6:Restaurant();
         break;
         case 7:Billing();
         break;
         default:exit(0);
void get_availability()
{
    printf("room\troomtype\tavailability\n");
    printf("101\tdelux\tavailable\n");
    printf("102\tA/Croom\tavailable\n");
```

```
printf("103\tnonA/C\tavailable\n");
    printf("104\tgeneral\tavailable\n");
void Features_of_room()
{
    int m;
    printf("1.sp.delux\n");
    printf("2.delux\n");
    printf("3.general\n");
    printf("4.couple\n");
    printf("enterur choice");
         scanf("%d",&m);
    switch(m)
    {
         case 1:printf("Features of sp.delux\n");
          printf("a/c\n");
          printf("t.v\n");
          printf("cost:1000per/day\n");
          break;
         case 2:printf("Features of delux\n");
         printf("a/c\n");
```

```
printf("no t.v\n");
         printf("cost:5000per/day\n");
         break;
         case 3:printf("Features of general\n");
         printf("non a/c\n");
         printf("not.v\n");
         printf("cost:2000per/day\n");
         break;
      case 4:printf("Features of couple\n");
      printf("a/c\n");
      printf("t.v\n");
      printf("extra beds\n");
      printf("cost:20000\nper/day\n");
      break;
      default:exit(0);
    }
void Room_allocation()
  a=(structhotel*)malloc(sizeof(structhotel));
  printf("enter the room number\n");
  scanf("%d",&a->roomnumber);
```

```
printf("enter the name\n");
 scanf("%s",&a->name);
 printf("enter the phone number\n");
 scanf("%d",&a->phonenumber);
 printf("enter the nationality\n");
    scanf("%s",&a->nationality);
  printf("enter the year which u have entered\n");
 scanf("%d",&a->yearin);
 printf("enter the date which u have entered \n");
  scanf("%d",&a->datein);
 printf("enter the month which u have entered \n");
  scanf("%d",&a->monthin);
    printf("theroom number:%d\n",a->roomnumber);
    printf("name of customer:%s\n",a->name);
    printf("phone number is:%d\n",a->phonenumber);
    printf("nationality:%s\n",a->nationality);
    printf("year:%d\n",a->yearin);
  printf("date:%d\n",a->datein);
  printf("month:%d\n",a->monthin);
void Show_customer_details()
{
```

```
printf("name:%s\n",a->name);
 printf("room number:%d\n",a->roomnumber);
  printf("nationality:%s\n",a->nationality);
  printf("year:%d\n",a->yearin);
  printf("date:%d\n",a->datein);
  printf("month:%d\n",a->monthin);
void Room_deallocation()
{
    printf("ROOM DEALLOCATION\n");
    printf("enter the date which u want to leave\n");
    scanf("%d",&a->outdate);
    printf("enter the month which u want to leave\n");
 scanf("%d",&a->outmonth);
 printf("enter the year which u want to leave\n");
    scanf("%d",&a->outyear);
    printf("date:%d\tyear:%d\tmonth:%d\n",a->outdate,a-
>outyear,a->outmonth);
    printf("the roomnumber: %d is deallocated and available to
book for others\n",a->roomnumber);
```

```
void Restaurant()
   int n;
   printf("1.blackforest\n2.vanilla\n3.chocolate\n4.butter
scotch\n5.richcoffee\n");
   printf("select what u want");
    scanf("%d",&n);
   printf("sl.no\titeam name\t cost\n");
   switch(n)
   {
     case 1:
         printf("1\tblackforest\t395\n");
         break;
     case 2:
         printf("2\tvanilla\t30\n");
         break;
     case 3:
         printf("3\tchocolate\t50\n");
         break;
     case 4:
         printf("4\tbutterscotch\t50\n");
         break;
```

```
case 5:
     printf("5\trichcoffee\t50\n");
     break;
     default:exit(0);
void Billing()
{
   printf("enter the rent");
   scanf("%d",&a->rent);
     printf("the rent of the room is:%d\n",a->rent);
     printf("THANKS FOR CHOOSING OUR HOTEL :) \n");
```

OUTPUTS

Screen Shots:

C:\Users\T NAVEEN KUMAR\OneDrive\Desktop\C LAN\pointers to structures.exe

```
    Get availability

2. Features of room
3. Room allocation
4. Show customer details
Room deallocation
6. Restaurant
7. Billing
8. exit
choose any number from above
room
                        availability
        roomtype
101
        delux available
102
        A/Croom available
103
        nonA/C available
104
        general available

    Get availability

2. Features of room
Room allocation
4. Show customer details
5. Room deallocation
6. Restaurant
7. Billing
8. exit
choose any number from above
2
1.sp.delux
2.delux
3.general
4.couple
enter u r choice2
Features of delux
a/c
no t.v
cost:5000per/day
1. Get availability
2. Features of room
3. Room allocation
4. Show customer details
5. Room deallocation
6. Restaurant
7. Billing
8. exit
choose any number from above
enter the room number
101
enter the name
mrudhula
enter the phone number
9121814408
```

```
C:\Users\T NAVEEN KUMAR\OneDrive\Desktop\C LAN\pointers to structures.exe
enter the phone number
9121814408
enter the nationality
india
enter the year which u have entered
enter the date which u have entered
enter the month which u have entered
12
the room number:101
name of customer:mrudhula
phone number is:12610508
nationality:india
vear:2020
date:10
month:12

    Get availability

Features of room
Room allocation
4. Show customer details
Room deallocation
6. Restaurant
7. Billing
exit
choose any number from above
name:mrudhula
room number:101
nationality:india
vear:2020
date:10
month:12

    Get availability

Features of room
Room allocation
Show customer details
Room deallocation
6. Restaurant
Billing
exit
choose any number from above
ROOM DEALLOCATION
enter the date which u want to leave
12
enter the month which u want to leave
enter the year which u want to leave
2020
```

```
C:\Users\T NAVEEN KUMAR\OneDrive\Desktop\C LAN\pointers to structures.exe
enter the year which u want to leave
2020
date:12 year:2020
the roomnumber:101 is deallocated and available to book for others

    Get availability

2. Features of room
Room allocation
4. Show customer details
Room deallocation
6. Restaurant
7. Billing
8. exit
choose any number from above
1.blackforest
2.vanilla
3.chocolate
4.butter scotch
5.richcoffee
select what u want3
sl.no
        iteam name
                         cost
        chocolate
                        50

    Get availability

2. Features of room
Room allocation
4. Show customer details
Room deallocation
6. Restaurant
7. Billing
8. exit
choose any number from above
enter the rent20000
the rent of the room is:20000
THANKS FOR CHOOSING OUR HOTEL :)

    Get availability

2. Features of room
Room allocation
4. Show customer details
Room deallocation
6. Restaurant
7. Billing
8. exit
choose any number from above
g
Process exited after 152.6 seconds with return value 0
Press any key to continue . . .
```

CONCLUSION BY THIS PROJECT I CAME TO COMPLETE THE TASK BY ASSUMING MY OWN ABOUT THE SYSTEM OF HOTEL MANAGEMENT I CAME TO KNOW ABOUT THE STRUCTURES TO POINTERS IN A CLEAR WAY. SUCCESSFULLY COMPLETED MY PROJECT ON HOTEL MANAGEMENT. SUCCESSFULLY IMPLEMENTED THE CODE IN C LANGUAGE AND CAME TO KNOW ABOUT THE SWITCH CASE AND STRUCTURES PERFECTLY.