KARNATAK LAW SOCIETY'S

GOGTE INSTITUTE OF TECHNOLOGY

UDYAMBAG, BELAGAVI-590008

(An Autonomous Institution under Visvesvaraya Technological University, Belagavi)

(APPROVED BY AICTE, NEW DELHI)

Department of Electronics and Communication Engineering

Course Activity Report on

HOTEL MANAGEMENT SYSTEM

Using

DATA Structures

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OBJECTIVE:

Implementation of hotel management system in C using structures,functions and looping constructs,with the following functionalities

- Adding Patient Info
- Viewing Patient Info
- Deleting Patient Info
- Exit

CODE:

```c
#include<stdio.h>
#include<string.h>
struct ad
{
    char name[30];
    char disease[30];
    int cabin,phone,age;
} x[100];
int n,i,j=0,a=0,sum=0,g,flag,num;
void add();
void view();
void del();
void read();
int main()
{
    int c,i,q;
    printf("GIT Hospital Management System\n");
    int m,n;
```

```c
//making out the pattern

for(m=1; m<=4; m++)
{
    for(n=1; n<=5; n++)
        printf(" ");
    for(n=1; n<=m-1; n++)
    {
        printf(" ");
    }
    for(n=1; n<=4-m+1; n++)
    {
        if(n==4-m+1 || m==1 || m==4)
            printf("*");
        else
            printf(" ");
    }
    for(n=1; n<=4-m+1; n++)
    {
        if(n==1 ||m==1 || m==4)
            printf("*");
        else
            printf(" ");
    }
    printf("\n");
}
for(;;)
{
```

```c
        printf("**Enter your choice**\n\n1. Add Information\n2. View
Information\n3. Delete Information\n4. Exit\n\nOption=");
        scanf("%d",&c);//choice for option
        fflush(stdin);//making it clear
        switch(c){
            case 1://add
                add();
                break;


            case 2:
                view();
                break;
            case 3:
                del();
                break;
            case 4:
                exit(0);
            default:
                printf("\n\nInvalid input , try again by using valid inputs");
             printf("\n\n");
    }
    }
}
void add()
{
    printf("\n\n");
    printf("Number of entries present on the database
=%d\n\n",num);//how many inputs
```

```c
printf("How many entry do you want to add=\n");
scanf("%d",&n);
sum=n+num;
FILE *fp = fopen("patient.txt","a");
if(fp == NULL)
{
    printf("Error");
    exit(1);
}
for(i=num,j=0; i<sum; i++)
{
    printf("\n");
    //fflush(stdin);
    printf("Enter patient's Name = ");
    gets(x[i].name);
    fprintf(fp, "Name = %s\n",x[i].name);
    fflush(stdin);
    printf("Enter disease = ");
    gets(x[i].disease);
    fprintf(fp, "Disease = %s\n",x[i].disease);
    fflush(stdin);
    printf("Enter the age = ");
    scanf("%d",&x[i].age);
    fprintf(fp, "Age = %d\n",x[i].age);
    fflush(stdin);
    printf("Enter cabin no = ");
    scanf("%d",&x[i].cabin);
    fprintf(fp, "Cabin = %d\n",x[i].cabin);
    fflush(stdin);
```

```c
        printf("Enter phone number = ");
        scanf("%d",&x[i].phone);
        fprintf(fp, "Phone = %d\n",x[i].phone);
        fflush(stdin);
        printf("\n");
        j++;
        a++;
        num++;
    }
    fwrite(x, sizeof(struct ad),num, fp);


    fclose(fp);
}


void view()
{
    FILE *fp = fopen("patient.txt","r");
    if(fp == NULL)
    {
        //create empty file, so that we can open it
        //in the next execution of this program
        fp = fopen("patient.txt","w");
        fclose(fp);
        printf("File does not exist, I JUST CREATED IT, exiting...\n\n\n");
        return 0;
    }
    for(i=0; i<num; i++)
    {
        printf("\n");
```

```c
        printf("Serial Number=%d\n",i);

        printf("Name = ");

        puts(x[i].name);

        printf("Disease = ");

        puts(x[i].disease);

        printf("Cabin no = %d\nPhone number =
0%d\nAge=%d",x[i].cabin,x[i].phone,x[i].age);

        printf("\n\n");

    }

    num = fread(x, sizeof(struct ad),100, fp);

    fclose(fp);

}


void del()
{
    int f,h;

    printf("Enter the serial number of the patient that you want to
delete=");

    scanf("%d",&f);

    if(f<num)

    {

        printf("What do you want ?\n");

        printf("1.Remove the whole record\n2.Remove Name\n3.Remove
Disease\n4.Remove age\n5.Remove Cabin\n6.Remove phone
number\nOption = ");

        scanf("%d",&h);

        if(h==1)

        {

            while(f<num)

            {
```

```c
        strcpy(x[f].name,x[f+1].name);
        strcpy(x[f].disease,x[f+1].disease);
        x[f].age=x[f+1].age;
        x[f].cabin=x[f+1].cabin;
        x[f].phone=x[f+1].phone;
        f++;
    }
    num--;
}
else if(h==2)
{
    strcpy(x[f].name,"Cleared");

}
else if(h==3)
{
    strcpy(x[f].disease,"Cleared");
}
else if(h==4)
{
    x[f].age=0;
}
else if(h==5)
{
    x[f].cabin=0;
}
else if(h==6)
{
    x[f].phone=0;
```
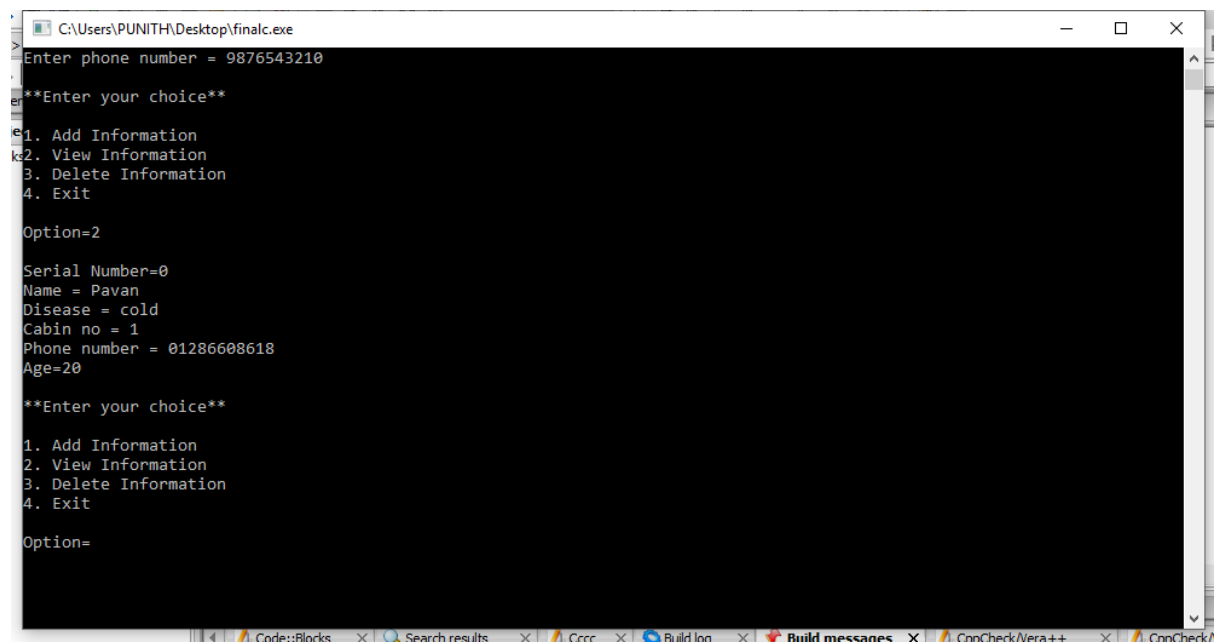
```
        }


    }
    else
        printf("\n\nInvalid Serial number\n");


}
```

OUTPUT:

Case 1:


```
C:\Users\PUNITH\Desktop\finalc.exe                                    —    □    ×
Enter phone number = 9876543210

**Enter your choice**

1. Add Information
2. View Information
3. Delete Information
4. Exit

Option=2

Serial Number=0
Name = Pavan
Disease = cold
Cabin no = 1
Phone number = 01286608618
Age=20

**Enter your choice**

1. Add Information
2. View Information
3. Delete Information
4. Exit

Option=
```

Case 2:

Case 3:

Limitations:

- Cannot edit the data
- Code has restricted stored data.