

## SOURCE CODE:

```
#include<stdio.h>
struct node
{
    char name[100];
    int age;
    char address[100];
    int phone;
    char bloodgroup[100];
    int reg;
    int priority;
    struct node *next;
};
struct node *start= NULL;
struct node *insert(struct node *);
struct node *delete(struct node *);
int main()
{
    int option;
    do{
        printf("\n\n\n WELCOME TO SREE HOSPITAL!\n");
        printf("-----\n");
        printf("1.ADD A PATIENT\n");
        printf("2.DELETE A RECORD\n");
        printf("3.DISPLAY ALL APPOINTMENTS BASED ON PRIORITY\n");
        printf("4.EXIT\n");
        printf("Enter your choice:");
        scanf("%d",&option);
        switch(option)
        {
            case 1:
                start= insert(start);
                getchar();
                break;
            case 2:
                start= delete(start);
                getchar();
                break;
            case 3:
                display(start);
                getchar();
                break;
            case 4:
                exit(0);
                break;
        }
    }while(option!=4);
}
```

struct node \*insert(struct node \*start)

```

{
    int val2,val4,val6,pri;
    char val1,val3,val5;
    struct node *ptr,*p;
    char* name[100];
    char* address[100];
    ptr=(struct node*)malloc(sizeof(struct node));
    printf("Enter patient Name:");
    scanf(" %s",ptr-> name);
    printf("Enter the patient's age:");
    scanf("%d",&val2);
    printf("Enter your home address:");
    scanf(" %s",ptr->address);
    printf("Enter your phone number:");
    scanf("%d",&val4);
    printf("Enter the blood group of Patient:");
    scanf(" %s",ptr->bloodgroup);
    printf("Enter the reg no:");
    scanf("%d",&val6);
    table();
    printf("Enter your disease Number:");
    scanf("%d",&pri);
    ptr->age=val2;
    ptr->phone=val4;
    ptr->reg=val6;
    ptr->priority=pri;
    if((start==NULL)||pri<start->priority)
    {
        ptr->next=start;
        start=ptr;
    }
    else
    {
        p=start;
        while(p->next!=NULL && p->next->priority <=pri)
            p=p->next;
        ptr->next=p->next;
        p->next=ptr;
    }
    return start;
};
struct node *delete(struct node *start)
{
    struct node *ptr;
    if(start==NULL)
    {
        printf("\n NO PATIENT RECORD TO DELETE");
        return;
    }
    else

```

```

    {
ptr= start;
printf("\n Deleted Record reg num is: %d",ptr->reg);
    start=start->next;
    free(ptr);
    }
    return start;
};
void display(struct node *start)
{
    struct node *ptr;
ptr=start;
    if(start==NULL)
printf("\nTHERE IS NO PATIENT");
    else
    {
printf("\Priority wise appointments are:\n");
        while(ptr!=NULL)
        {
printf("The name of patient is:%s\n",ptr->name);
printf("The age of patient is:%d\n",ptr->age);
printf("The address of patient is : %s\n",ptr->address);
printf("Phone Number:%d\n",ptr->phone);
printf("The blood group of patient is:%s\n",ptr->bloodgroup);
printf("-----\n");
ptr=ptr->next;
        }
    }
getchar();
}
void table()
{
printf("\t\tPlease Refer this Table for your disease!\n");
printf("1.Heart attack\n");
printf("2.Severe wound/Bleeding\n");
printf("3.Cancer\n");
printf("4.Chest pain\n");
printf("5.Fracture\n");
printf("6.Diabetes Checkup\n");
printf("7.Infection\n");
printf("8.Viral Fever\n");
printf("9.Common Cold/Head ache\n");
}

```

## OUTPUT

/tmp/DD30KwTfuC.o

WELCOME TO SREE HOSPITAL!

- 
- 1.ADD A PATIENT
  - 2.DELETE A RECORD
  - 3.DISPLAY ALL APPOINTMENTS BASED ON PRIORITY
  - 4.EXIT

Enter your choice:1

Enter patient Name:vasu

Enter the patient's age:32

Enter your home address:nandyal

Enter your phone number:2345678190

Enter the blood group of Patient:o+ve

Enter the reg no:1

Please Refer this Table for your disease!

- 1.Heart attack
- 2.Severe wound/Bleeding
- 3.Cancer
- 4.Chest pain
- 5.Fracture
- 6.Diabetes Checkup
- 7.Infection
- 8.Viral Fever
- 9.Common Cold/Head ache

Enter your disease Number:3

WELCOME TO SREE HOSPITAL!

- 
- 1.ADD A PATIENT
  - 2.DELETE A RECORD
  - 3.DISPLAY ALL APPOINTMENTS BASED ON PRIORITY
  - 4.EXIT

Enter your choice:1

Enter patient Name:sree

Enter the patient's age:45

Enter your home address:kurnool

Enter your phone number:98734102

Enter the blood group of Patient:ab+ve

Enter the reg no:2

Please Refer this Table for your disease!

- 1.Heart attack
- 2.Severe wound/Bleeding
- 3.Cancer
- 4.Chest pain
- 5.Fracture
- 6.Diabetes Checkup
- 7.Infection
- 8.Viral Fever
- 9.Common Cold/Head ache

Enter your disease Number:8  
WELCOME TO SREE HOSPITAL!

- 
- 1.ADD A PATIENT
  - 2.DELETE A RECORD
  - 3.DISPLAY ALL APPOINTMENTS BASED ON PRIORITY
  - 4.EXIT

Enter your choice:1  
Enter patient Name:joy  
Enter the patient's age:67  
Enter your home address:chittor  
Enter your phone number:912345670  
Enter the blood group of Patient:o-ve  
Enter the reg no:3  
Please Refer this Table for your disease!

- 1.Heart attack
  - 2.Severe wound/Bleeding
  - 3.Cancer
  - 4.Chest pain
  - 5.Fracture
  - 6.Diabetes Checkup
  - 7.Infection
  - 8.Viral Fever
  - 9.Common Cold/Head ache
- Enter your disease Number:1  
WELCOME TO SREE HOSPITAL!

- 
- 1.ADD A PATIENT
  - 2.DELETE A RECORD
  - 3.DISPLAY ALL APPOINTMENTS BASED ON PRIORITY
  - 4.EXIT

Enter your choice:3  
Priority wise appointments are:  
The name of patient is:joy  
The age of patient is:67  
The address of patient is : chittor  
Phone Number:912345670  
The blood group of patient is:o-ve

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The name of patient is:vasu  
The age of patient is:32  
The address of patient is : nandyal  
Phone Number:-1949289106  
The blood group of patient is:o+ve

-----

The name of patient is:sree  
The age of patient is:45  
The address of patient is : kurnool  
Phone Number:98734102  
The blood group of patient is:ab+ve

-----  
WELCOME TO SREE HOSPITAL!

- 1.ADD A PATIENT  
2.DELETE A RECORD  
3.DISPLAY ALL APPOINTMENTS BASED ON PRIORITY  
4.EXIT

Enter your choice:2

Deleted Record reg num is: 3

WELCOME TO SREE HOSPITAL!

- 1.ADD A PATIENT  
2.DELETE A RECORD  
3.DISPLAY ALL APPOINTMENTS BASED ON PRIORITY  
4.EXIT

Enter your choice:3

Priority wise appointments are:

The name of patient is:vasu

The age of patient is:32

The address of patient is : nandyal

Phone Number:-1949289106

The blood group of patient is:o+ve

-----  
The name of patient is:sree

The age of patient is:45

The address of patient is : kurnool

Phone Number:98734102

The blood group of patient is:ab+ve

-----  
WELCOME TO SREE HOSPITAL!

- 1.ADD A PATIENT  
2.DELETE A RECORD  
3.DISPLAY ALL APPOINTMENTS BASED ON PRIORITY  
4.EXIT

Enter your choice:4

...program finished with exit code 0

Press ENTER to exit console..