

## ASSIGNMENT NO. 8

### 1.SSTF

```
#include<stdio.h>

#include<stdlib.h>

int main()

{

    int RQ[100],i,n,TotalHeadMoment=0,initial,count=0;

    printf("Enter the number of Requests\n");

    scanf("%d",&n);

    printf("Enter the Requests sequence\n");

    for(i=0;i<n;i++)

        scanf("%d",&RQ[i]);

    printf("Enter initial head position\n");

    scanf("%d",&initial);


    // logic for sstf disk scheduling


    /* loop will execute until all process is completed*/

    while(count!=n)

    {

        int min=1000,d,index;

        for(i=0;i<n;i++)

        {

            d=abs(RQ[i]-initial);

            if(min>d)
```

```
{  
    min=d;  
    index=i;  
}  
  
}  
  
TotalHeadMoment=TotalHeadMoment+min;  
  
initial=RQ[index];  
  
// 1000 is for max  
// you can use any number  
RQ[index]=1000;  
  
count++;  
  
}  
  
printf("Total head movement is %d",TotalHeadMoment);  
  
return 0;  
  
}
```

OUTPUT:

```
guest-lz0eRo@ubuntu: ~
guest-lz0eRo@ubuntu:~$ gcc pr8.c -lpthread
guest-lz0eRo@ubuntu:~$ ./a.out
Enter the number of Requests
7
Enter the Requests sequence
82
170
43
140
24
16
190
Enter initial head position
50
Total head movement is 208
guest-lz0eRo@ubuntu:~$
```