Experiment No. 12

Write a program to demonstrate Disk scheduling algorithms like FCFS, SSTF, SCAN and LOOK.

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FCFS (first come first serve)disk scheduling

• FCFS is the simplest of all the Disk Scheduling Algorithms.

• In FCFS, the requests are addressed in the order they arrive in the disk queue.

• **Advantage:-**
1.easy to understand and implement
2.No starvation occur
• **Disadvantage:-**
1.Throughput is not very efficient
2.Waiting and response time is more

```c
#include<stdio.h>
#include<stdlib.h>
int main()
{
int RQ[100],i,n,TotalHeadMoment=0,initial;
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 FCFS disk scheduling
for(i=0;i<n;i++)
{
TotalHeadMoment=TotalHeadMoment+abs(RQ[i]-initial);
initial=RQ[i];
}
printf("Total head moment is %d",TotalHeadMoment);
return 0;
}
```

```
Output:

Enter the number of Request
8
Enter the Requests Sequence
95 180 34 119 11 123 62 64
Enter initial head position
50
Total head movement is 644
```