LAB REPORT - 1

COC 3960

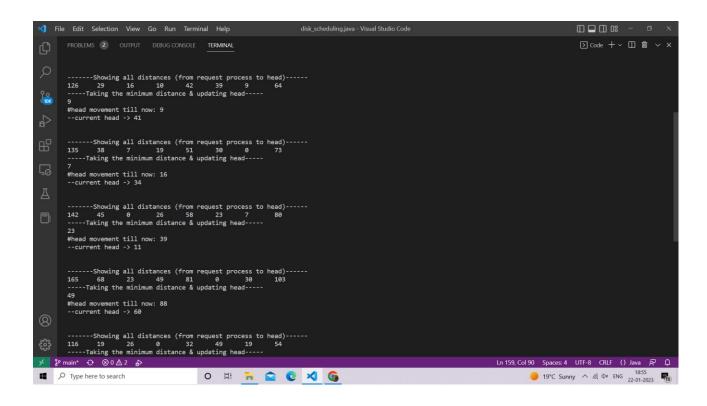
ADVANCED COMPUTING LAB

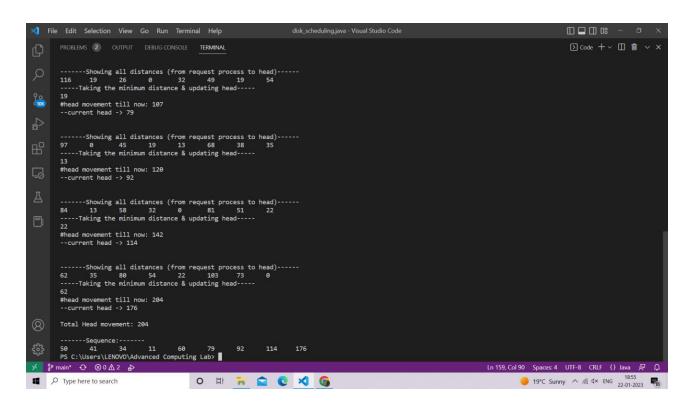
OBJECT: Given a string of cylinder numbers. Write a program to implement disk scheduling algorithms: (i) SSTF (ii) C-SCAN and (iii) C-LOOK. Compute the head movement for each of these algorithms. Show all intermediate steps.

INPUT: (i) SSTF

```
disk_scheduling.java - Visual Studio Code
💢 File Edit Selection View Go Run Terminal Help
       PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL
仚
       PS C:\Users\LENOVO\ cd "c:\Users\LENOVO\Advanced Computing Lab\"; if ($?) { javac disk_scheduling.
       Enter the number of processes: 8
       Enter the cylinder 1: 176
       Enter the cylinder 2 : 79
       Enter the cylinder 3: 34
       Enter the cylinder 4:60
       Enter the cylinder 5 : 92
       Enter the cylinder 6 : 11
       Enter the cylinder 7 : 41
       Enter the cylinder 8: 114
       Enter the current head: 50
       Press 1 for SSTF
       Press 2 for C-SCAN
       Press 3 for C-LOOK
```

INTERMEDIATE STEPS & OUTPUT:

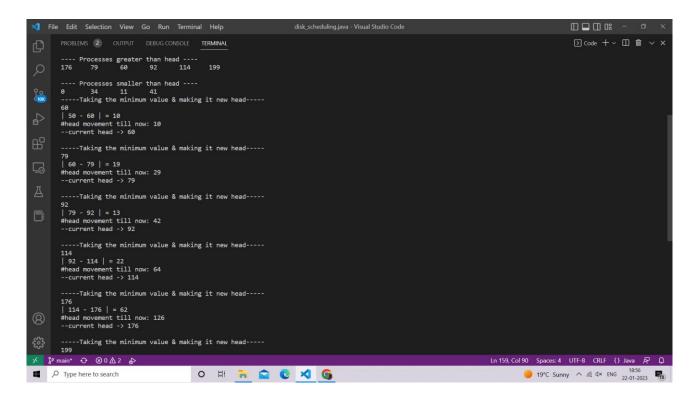


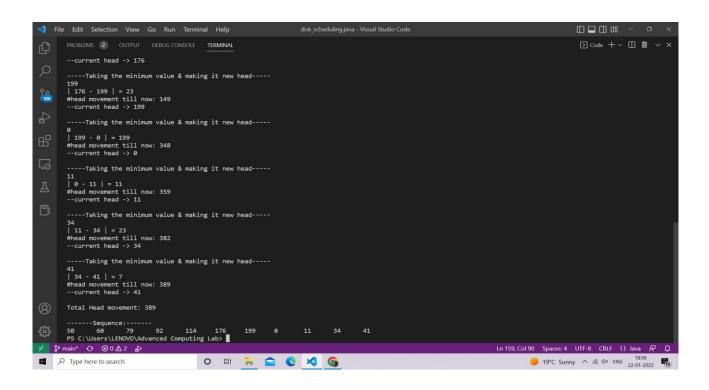


(ii) C-SCAN INPUT

```
🔀 File Edit Selection View Go Run Terminal Help
                                                                      disk_scheduling.java - Visual Studio Code
D
       PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL
       PS C:\Users\LENOVO> cd "c:\Users\LENOVO\Advanced Computing Lab\"; if ($?) { javac disk_scheduling.
       Enter the number of processes: 8
       Enter the cylinder 1 : 176
       Enter the cylinder 2 : 79
       Enter the cylinder 3 : 34
       Enter the cylinder 4 : 60
       Enter the cylinder 5 : 92
       Enter the cylinder 6 : 11
₹
B
       Enter the cylinder 7 : 41
       Enter the cylinder 8 : 114
       Enter the current head: 50
       Press 1 for SSTF
       Press 2 for C-SCAN
Press 3 for C-LOOK
       Enter disk size:
       200
```

INTERMEDIATE STEPS & OUTPUT:





(iii) C-LOOK

INPUT

```
🔀 File Edit Selection View Go Run Terminal Help
                                                                     disk_scheduling.java - Visual Studio Code
       PROBLEMS (2) OUTPUT DEBUG CONSOLE TERMINAL
D
       PS C:\Users\LENOVO> cd "c:\Users\LENOVO\Advanced Computing Lab\"; if ($?) { javac disk_scheduling.jav
       Enter the number of processes: 8
       Enter the cylinder 1 : 176
       Enter the cylinder 2 : 79
10K
       Enter the cylinder 3 : 34
       Enter the cylinder 4 : 60
       Enter the cylinder 5 : 92
       Enter the cylinder 6 : 11
       Enter the cylinder 7 : 41
       Enter the cylinder 8: 114
Enter the current head: 50
       Press 1 for SSTF
       Press 2 for C-SCAN
Press 3 for C-LOOK
```

INTERMEDIATE STEPS & OUTPUT:

