To stimulate disk scheduling algorithms # include < State. h7 # include = Stallib. h7 Void Jeps Cint request queve [7, int minthed]. int total: movement = abs [head request - quere] for (i=1; ian; itt) { total movement + = abs (request - goese [:] point [" Total head movement % d h" total int n, head; point [" Enter no of original!"); nequest queve (n7; point ("Enter request queue \n"); Scanf l'olod & request que [17); Prints ("Enter the initial head prition";

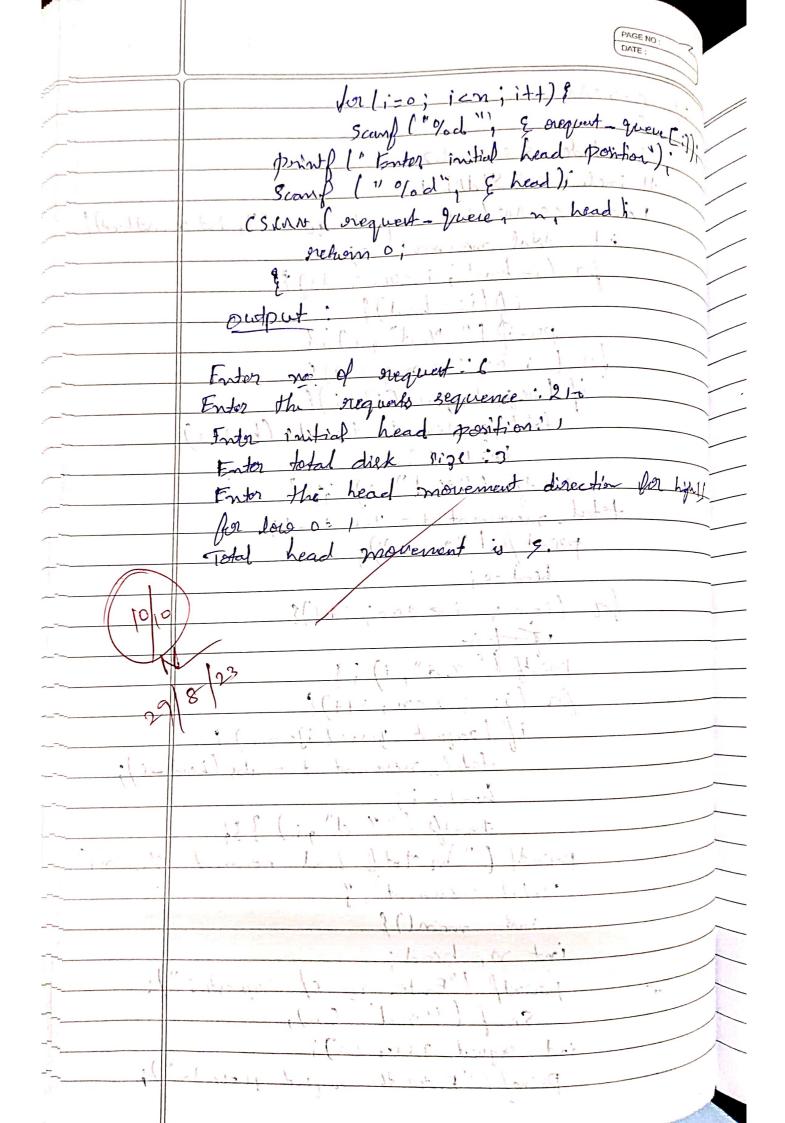
5 canf ("olad", & head); Icfs (request queue, n, head); Fator no of nequests: 8 Enter requet dequence 95 1'80 34 119 1118 Enter initial head position 50

PAGE NO DATE : SCAN Himiliale < Statio. h) plinelule < Stdhib. h7 Nod Scan Lind request queve [], int n, inthead); int dotal movement = 0. int dilection; print (Enter the direction: "); Sand ("olod", & direction); if /direction==0) } for li-head ; 17=0; 1--) if (i = head)! print (" % d" i) ; 3 lor (5:0; Jan; 1+) { if I request queue [i]==;)? total movement + = head; print ("6"); lor (1=0; ia head; (++)} if (i== head - 1) & Parint ("0/0 d" 1i); if (negrest queue [5] = = i) { total movement + = abs Chead paint (" of d " i) { ?? for (i=200; i=head; i--)} pende [" fod" i) i (i = = | lead + 1) { forl 5 =0; 5 cn; i+1)[if (nequest quere [: 7 = = i) { fotal movement + = abs (head-i) head zi;

position"

" o(od", i); Pority (of requesti no of negret 8 position movement direction head movement

PAGE NO : C-SCAN Hinclude < Stdo. 42 void cscAN (int srequest queve [7, int n, inthead) /
int Johal movement = 0; for (i= head; i < 200; i++) } if (i == head) {
int) [" % d", i) i } total movement + = 200_head; porint p (120000); for (i=0; i = 200; i++) ? if (nequest - queue [5]==;) { total movement + - abs (head -i); head = i;
perintp ("% d" gi) } if
(" In total head movement % d m".) movement); 9 main(){ int ne head; paint l'Enter no of requests: "): Scarf (''% od", En); int request query [n]; Perint ["Enter the request-queue In");



Enter the maximum range of Disk: 200 Enter the number of queue requests: 7 Enter the initial head position: 50 Enter the disk positions to be read(queue): 82 170 43 140 24 16 19 Disk head moves from position 50 to 82 with Seek 32 Disk head moves from position 82 to 140 with Seek 58 Disk head moves from position 140 to 170 with Seek 30 Disk head moves from position 170 to 190 with Seek 20 Disk head moves from position 190 to 200 with Seek 10 Disk head moves from position 200 to 43 with Seek 157 Disk head moves from position 43 to 24 with Seek 19 Disk head moves from position 24 to 16 with Seek 8 Total Seek Time= 334 Average Seek Time= 47.714287

```
Enter the number of queue requests: 7
Enter the initial head position: 50
Enter the disk positions to be read(queue): 82 170 43 140 24 16 1
Disk head moves from position 50 to 82 with Seek 32
Disk head moves from position 82 to 140 with Seek 58
Disk head moves from position 140 to 170 with Seek 30
Disk head moves from position 170 to 190 with Seek 20
Disk head moves from position 190 to 200 with Seek 10
Disk head moves from position 200 to 43 with Seek 157
Disk head moves from position 43 to 24 with Seek 19
Disk head moves from position 24 to 16 with Seek 8
Total Seek Time= 334
Average Seek Time= 47.714287
```

Enter the maximum range of Disk: 200

Enter the number of Requests: 7

Enter the Requests sequence: 82 170 43 140 24 16 190

Enter initial head position: 50

Enter total disk size: 200

Enter the head movement direction (high = 1 and low = 0): 0

Total head movement is: 366