POODOO int quare [25] n, headposition, i, j, K, seek = 0, maxtouge, difference Scan ( [-1.4", of headboutton);
Print ("Suter The diff fostition to be head (que ie):"), Subject Code > PBI-202 , temp, queue IC203, queuello3, temp 1=0, temp 2=0; Bird / ("Enter the west inum hange of DiM."); Scanf ("-1.2", & mathorys);
Phint ("Enter the intial head patron:"); Scord ("-12"). P. temp); quent 1 ctemb 1) = temp; for (1=1; i==n; i++) queer 2(temp2]= temp; temp2++; Subject = Operating System into obsolute value (int); Date = 27/08/2021 Nome = P.HIK Kusyal Red no = 2023 ap7 temp 1++; # · includ < Hdo . h > Used main ()

```
for (ioi=o; ic. *emp 1-1; i++)
   bor(j=i+1;j < temp 1:j++)
        Ausp= quere [Ci];
        queue I[i]=queue [ [j ];
queue I[j]= temp;
   box (i= 0; i ( kmp2-1; i++)
       for (j=i+1;j<temp2;i++)
    E it Conene 2(i] < were 2(j))
        Femb = queue 2(i);

queue2[i] = queue 2(ji);

queue 2(i] = temp;
 3 bor (i=1,j=0; j'(temp1; i++)j'++)
       Evere [i] = que me & I [j];
     quere [i] = maxtronge;
for (i= temb 1+2, j'=0; j' < tempz; temp 2; i++, j'++)
                                                                    Rial
```

```
queue[i]=queuex[j];
queux [i] = martange;
 bor ( = try 1+2, i = 0; 1 < temp 2; i++ i ++)
  ¿ queux Ei] = queux 2[i];
  quele [i]=oj
  mere Eo] headpopition;
   br (j=0; j (=n; j++)
      difference: also lute value Equere [j+1] - queue [j];
           Seek = Seek + Jilberena.
      print ( "Total head movement = 1-din", feek );
  Int absolute value (int x)
  (×20)
      E neturn X;
      E return x *-1;
```

```
Enter the maximum range of Disk: 100
Enter the number of queue requests: 7
Enter the initial head position: 24
Enter the disk positions to be read (queue): 12
26
24
4
42
8
50
Disk head moves from position 24 to 26 with Seek 2
Disk head moves from position 26 to 42 with Seek 16
Disk head moves from position 42 to 50 with Seek 8
Disk head moves from position 50 to 100 with Seek 50
Disk head moves from position 100 to 24 with Seek 76
Disk head moves from position 24 to 12 with Seek 12
Disk head moves from position 12 to 8 with Seek 4
Disk head moves from position 8 to 4 with Seek 4
Total Seek Time= 172
Average Seek Time= 24.571428
```

Press ENTER to exit console.