Name:- Pallvi
University Roll no:- 2023074
Class Roll no:- 31
Subject:- Operating System
Sign:- Pallvi 22-08-21

Answer-2 :- Code :-

```
#include <stdio.h>
#include <stdlib.h>
int main()
{
int i,j, sum=0, n;
int d[20];
int disk;
int temp, max;
int dloc;
printf("Enter no. of location\t");
scanf("%d", &n);
printf("Enter the position of head\t");
scanf("%d", &disk);
printf("Enter elements of disk queue\n");
for(i=0; i<n; i++)
{
scanf("%d", &d[i]);
}
d[n]= disk;
n= n+1;
for(i=0; i<n; i++)
{
 for(j=1; j<n; j++)
```

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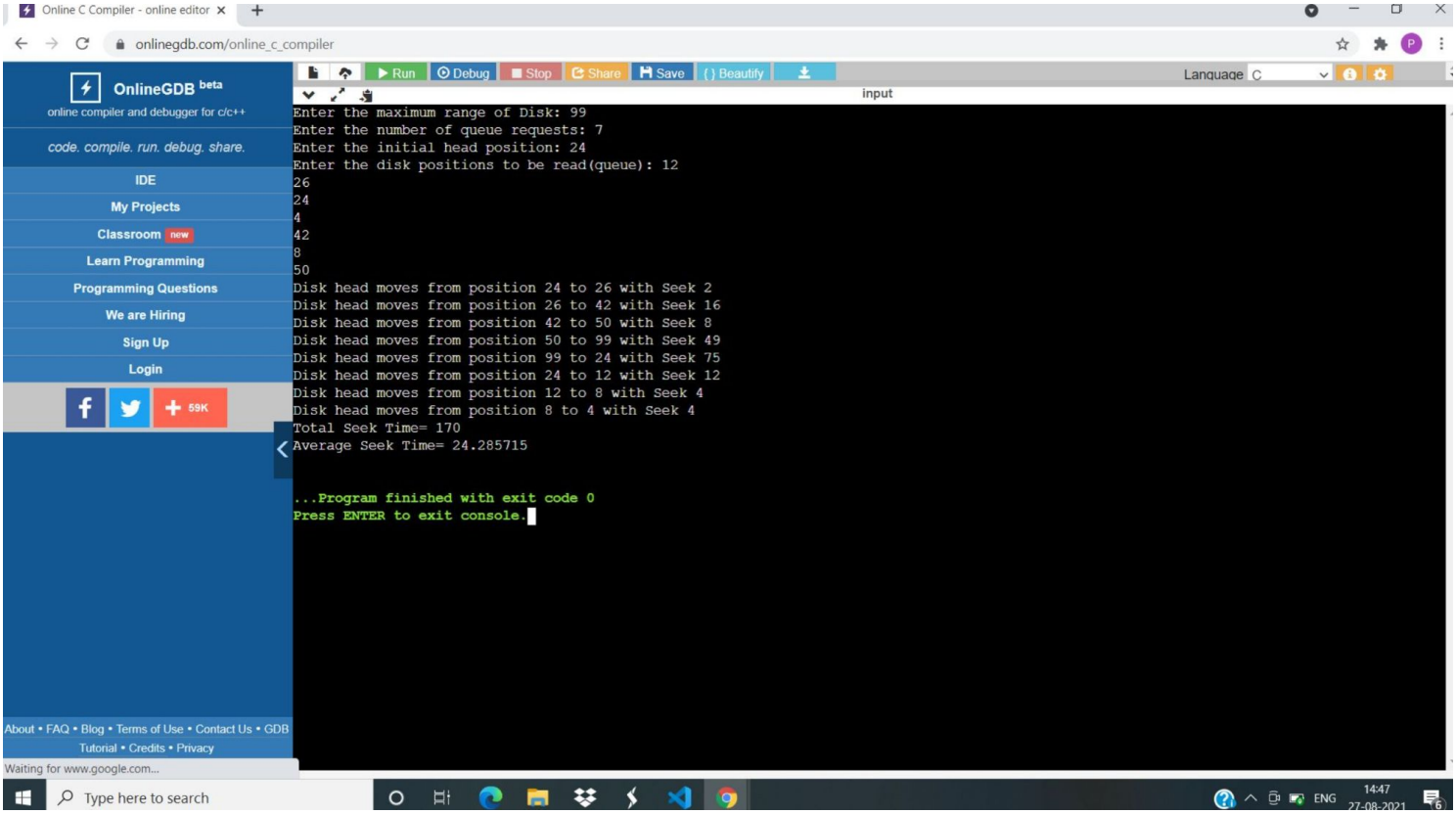
```
printf (" Enter the size of the files : \n");
for (i=1 ; i<=nf ; i++)
{
printf ("File %d :", i)
scanf ("%d", &f[i]);
}
for (i=1; i<=nf; i++)
 {
 for (j=1; j<=nb; j++)
 {
 if (bf[j]!=1) // if bf[j] is not allocated
 {
 temp = b[j]- f[i] ; if (temp >=0)
 if (highest < temp)
 { ff[i]=j ;
  highest = temp;
 }
 }
}
 frag [i]= highest;
 bf[ff[i]] =1;
 highest = 0;
}
```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input
Enter the maximum range of Disk: 99
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 99 with Seek 49
Disk head moves from position 99 to 24 with Seek 75
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= 170
Average Seek Time= 24.285715
...Program finished with exit code 0
Press ENTER to exit console.
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27-08-2021