Name- Shradha-Sharma
Roll number-2023100
Subject - Operating System practical exam
Student ID-20132019
Course - BSC IT-(2A)

Shradha.

Soln> C program-

```
#include <stdio.h>
#include <conio.h>
#define max 25
 void main()
{
 int frag[max], b[max], f(max), i, j, nb, nf, temp;
  static int bf[max], ff[max];
 printf("\n\t Memory Management scheme- worst fit");
 printf("\n Enter the number of blocks: ");
 scanf("%d", &nb);
 printf(" Enter the number of files: ");
 scanf("%d", &nf);
printf("\n Enter the size of the blocks :-\n");
 for(i=1; i<=nb; i++)
 {
 printf("Block %d: ",i);
 scanf("%d", &b[i]);
}
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++)
{
```

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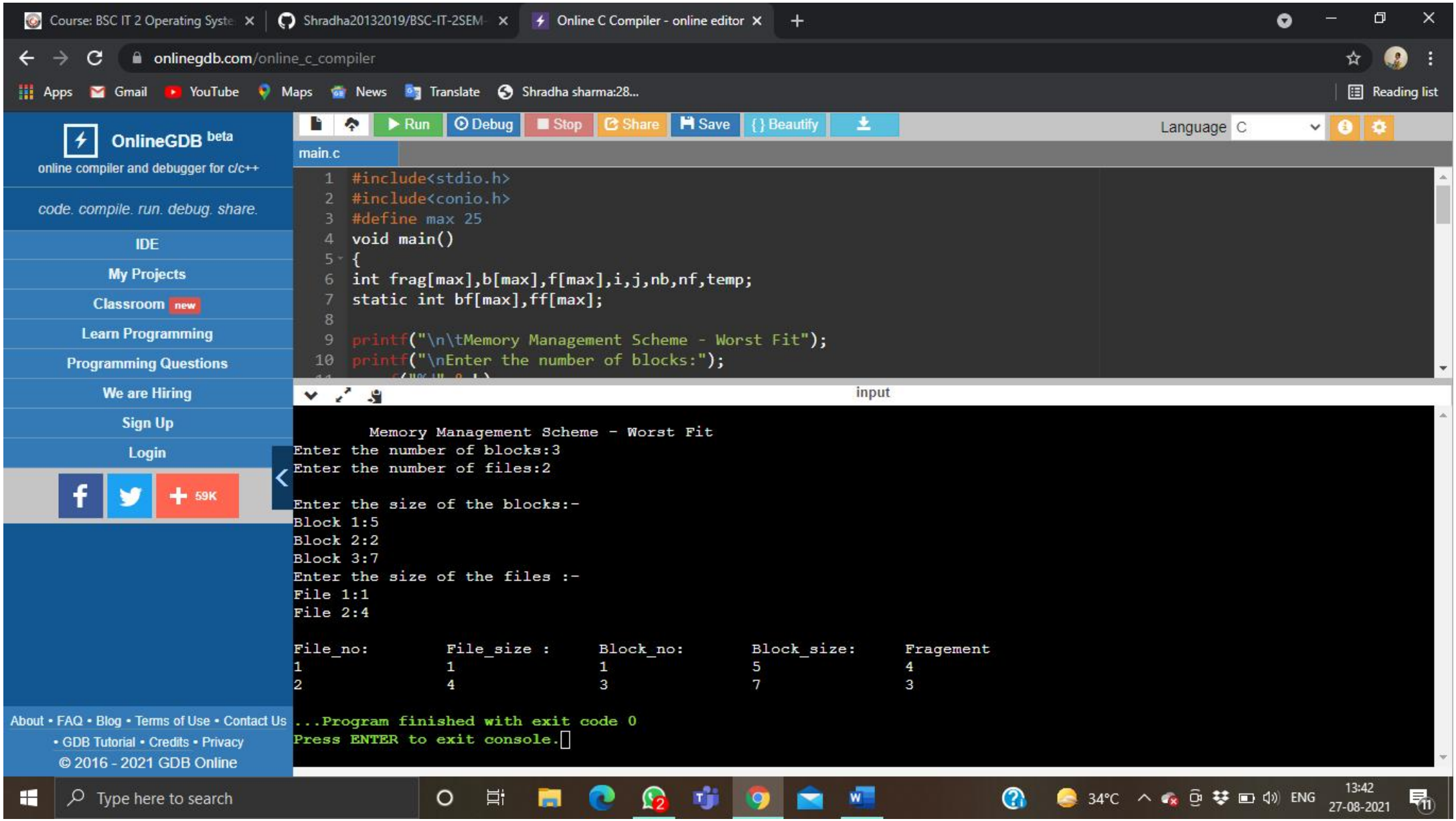
```
if (bf[j]!=1)
{
temp = b[j] - f[i];
if (temp >=0)
 {
 ff[i]=j;
 break;
}
}
}
frag[i]=temp;
bf[ff[i]]=1;
}
printf("\nFile_no:\tFile_size:\t Block_no:\tBlock_size:
 \t Fragment ");
 for (i=1; i<=nf; i++)
 printf("\n%d\t\t%d\t\t%d\t\t%d\t\t%d", i, f[i],
    ff[i], b[ff[i]], frag[i]);
  getch();
 }
```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Language C
main.c
1 #include<stdio.h>
2 #include<conio.h>
3 #define max 25
4 void main()
5 {
6 int frag[max],b[max],f[max],i,j,nb,nf,temp;
7 static int bf[max],ff[max];
8
9 printf("\n\tMemory Management Scheme - Worst Fit");
10 printf("\nEnter the number of blocks:");
input
Memory Management Scheme - Worst Fit
Enter the number of blocks:3
Enter the number of files:2
Enter the size of the blocks:-
Block 1:5
Block 2:2
Block 3:7
Enter the size of the files :-
File 1:1
File 2:4
File_no: File_size : Block_no: Block_size: Fragement
1 1 1 5 4
2 4 3 7 3
...Program finished with exit code 0
Press ENTER to exit console.
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Shradha. (3)

Sol(2.) #include<stdio.h>
int absolute value (int);
void main()
{
int
queue [25], n, head position, i, j, k, seek=0, max range,
difference, temp, queue 1 [20], queue 2 [20], temp 1 = 0, temp 2=0;
float average seek Time;
printf("Enter the maximum range of Disk: ");
scanf("%d", & max range);
printf("Enter the number of queue requests:");
scanf("%d", &n);
printf("Enter the initial head position:");
scanf("%d", & head position);
printf("Enter the disk positions to be read (queue):");
for (i=1; i<=n; i++)
{
scanf("%d", & temp);
if (temp > head position)
{
scanf("%d", & temp);
if (temp > head position)
{
queue 1 [temp1] = temp;
temp1++;
}
else
{
queue 2 [temp2] = temp;
temp 2++;
}
}

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```
for (i=0; i<temp1-1; i++)
 {
  for(j=i+1; j< temp1; j++)
  {
   if (queue1[i] > queue1[j])
  {
     temp = queue1[i];
     queue1[i] = queue1[j];
     queue1[j] = temp;
   }
  }
}
 for (i=0; i<temp2-1; i++)
 {
  for (j=j+1 ; j< temp2 ; j++)
   {
    if(queue2[i] <queue2[j])
    {
     temp =queue2[i];
     queue2[i] = queue2[j];
     queue2[j] = temp;
   }
  }
}
 for (i=1; j=0; j<temp1; i++, j++)
{
 queue[i] = queue1[j];
}
 queue[i] = maxrange;
for (i=temp1+2, j=0; j<temp2; i++, j++)
```

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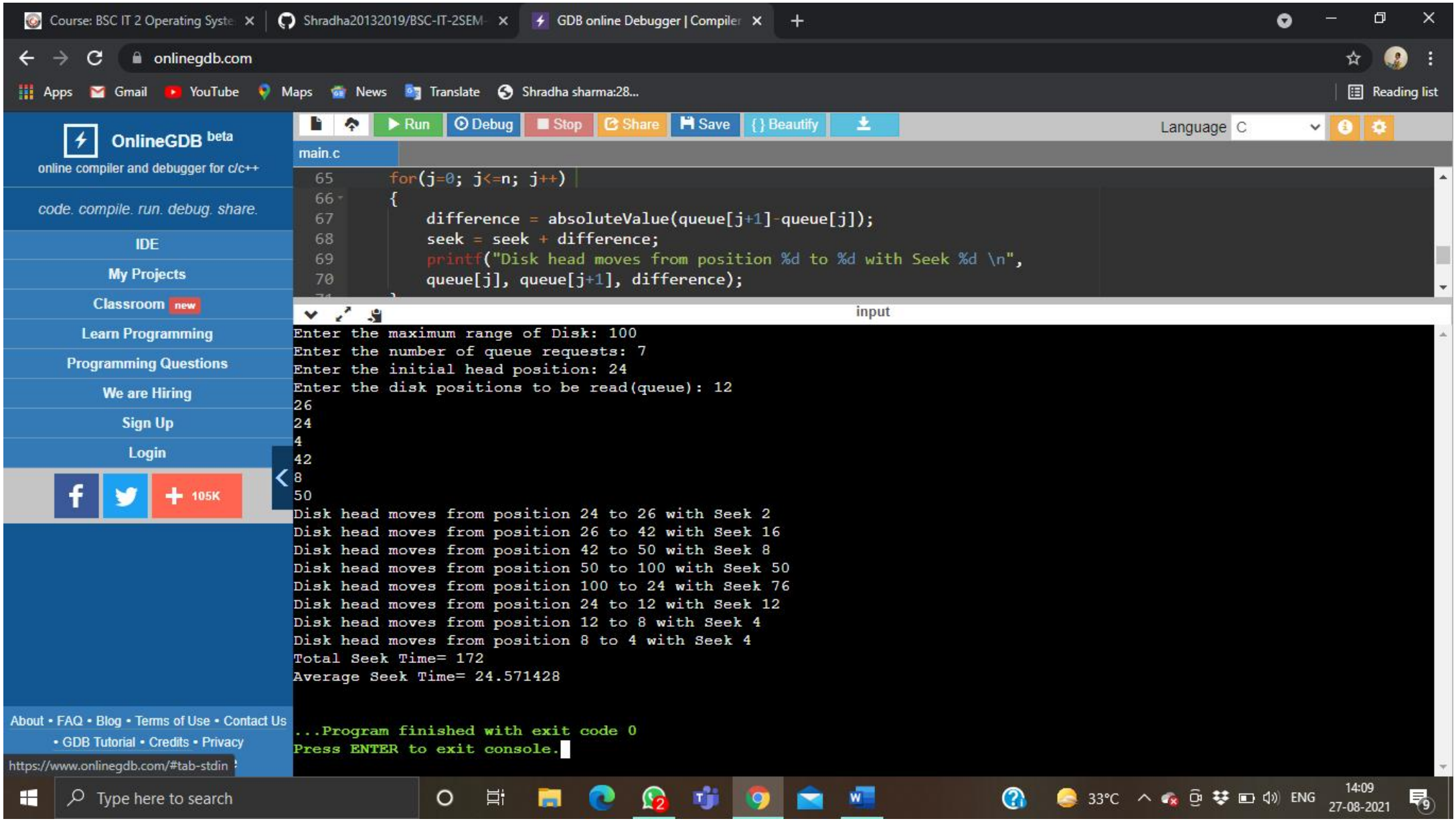
```
 {
  queue[i] = queue2[j];
 }
 queue[i] = 0;
 queue[0] = headposition;
 for (j=0; j<=n; j++)
{
 difference = absolutevalue(queue[j+1] - queue[j]);
  seek = seek + difference;
 printf("Disk head moves from position %d to %d with seek
  %d\n", queue[j], queue[j+1], difference);
}
 averageSeekTime = seek / (float) n;
 printf("total Seek Time = %d\n"; seek);
 printf ("Average Seek Time = %f\n", average seek Time);
}
int absolute value (int x)
{
 if(x>0)
  {
   return x;
  }
 else
 {
 return x*-1;
 }
}
```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Language C
main.c
for(j=0; j<=n; j++)
{
difference = absoluteValue(queue[j+1]-queue[j]);
seek = seek + difference;
printf("Disk head moves from position %d to %d with Seek %d \n",
queue[j], queue[j+1], difference);
input
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
...Program finished with exit code 0
Press ENTER to exit console.
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