Name - Rohit Bhandari
Course - BSc IT
Subject - OS(practical)
Student id - 2005124

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

Rohit

```
for(j=1;j<=nb;j++)
if(bf[j]!=1)
{
temp=b[j]-f[i];
if(temp>=0)
{
ff[i]=j;
break;
}
}
frag[i]=temp;
bf[ff[i]]=1;
for(j=1;j<=nb;j++)
if(temp>=b[j]-f[i];
if(temp>=0)
{
ff[i]=j;
break;
}
}
frag[i]=temp;
bf[ff[i]]=1
}
printf("\nfile_no:\tfile_size:\tblock_no:\t
block_size:\tfragment");
for(i=1;i<=n;i++)
printf("\n%d\t\t%d\t\t%d\t\t%d\t\t%d",
i,f[i],ff[i],b[ff[i]],b[ff[i]],frag[i]);
```

getch();
}

Input

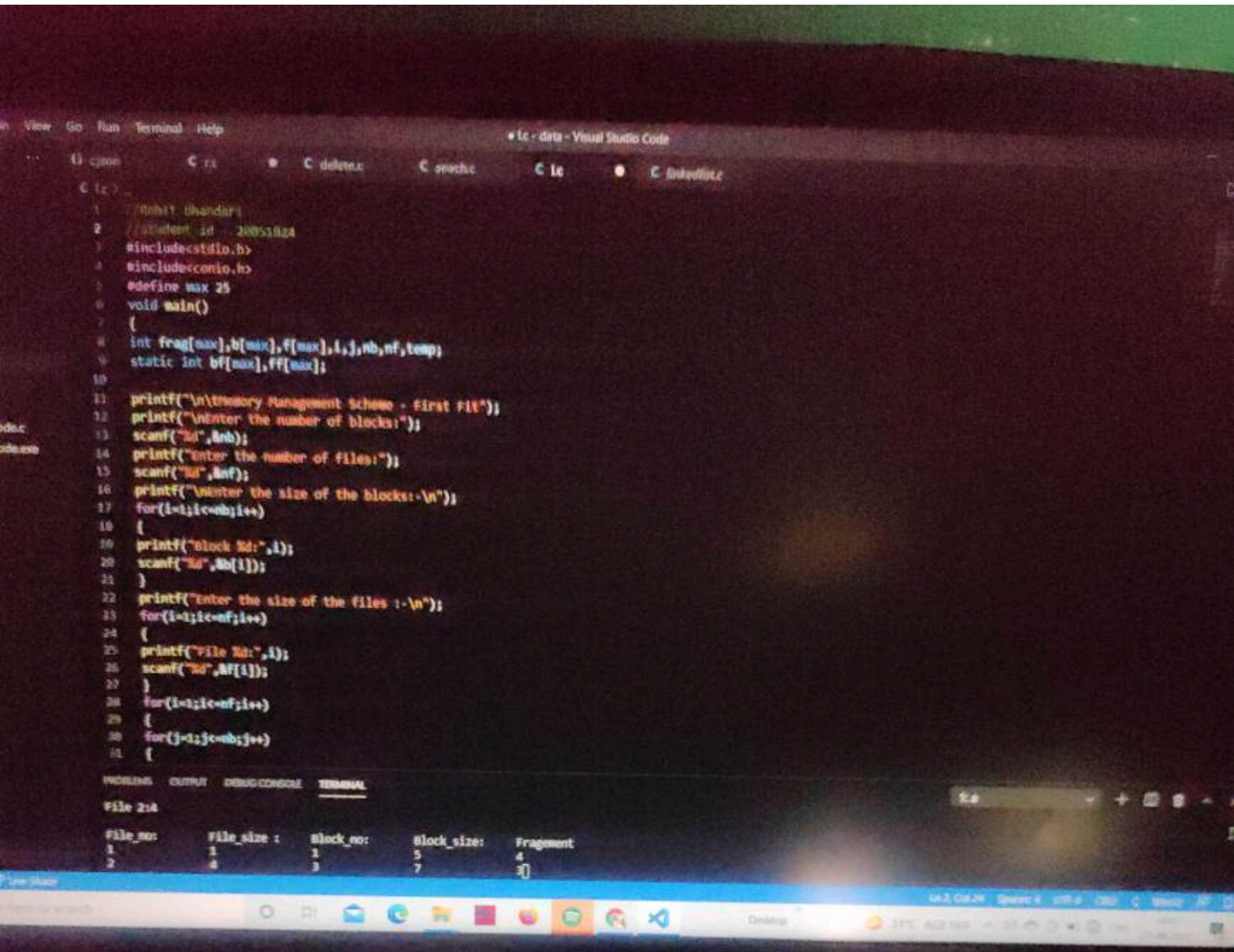
Enter the number of blocks: 3
Enter the number of files: 2

Enter the size of blocks:
Block 1: 5
Block 2: 2
Block 3: 7

Enter the size of the files:
File 1: 1
File 2: 4

Output				
File no	File size	Block no	Block size	Fragment
1	1	1	5	4
2	4	3	7	3

Rohit


View Go Run Terminal Help
• lc - data - Visual Studio Code
delete.c
search.c
lc
linkedlist.c
//Rohit dhandar
#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\tMemory Management Scheme - First Fit");
printf("\nEnter the number of blocks:");
scanf("%d",&nb);
printf("Enter the number of files:");
scanf("%d",&nf);
printf("\nEnter 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",&ff[i]);
}
for(i=1;i<=nf;i++)
{
for(j=1;j<=nb;j++)
{
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
File 2:4
File_no: File_size : Block_no: Block_size: Fragement
1 1 1 5 4
2 4 3 7 3

```
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)
{
temp=b[j]-f[i];
if(temp>=0)
{
ff[i]=j;
break;
}
}
}
frag[i]=temp;
bf[ff[i]]=1;
}
printf("\nFile_no:\tFile_size :\tBlock_no:\tBlock_size:\tFragement");
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();
}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
File 2:4

File_no:        File_size :     Block_no:       Block_size:     Fragement
1               1               1               5               4
2               4               3               7               3
```

```
temp= d[i];
d[i]= d[j];
d[j]= temp;
}
}
}
Max=d[n];
for(i=0; i<n; i++);
if(disk==d[i]) doc=i; break;}
}
for(i=doc; i>0; i--)
printf("%d->", d[i]);
}
printf("0->");
for(i=doc+1; i<n; i++)
printf("%d->", d[i]);
}
sum= disk+ max;
printf("In movement of total cylinders %d",
sum);
return 0;
}
```

R.No:

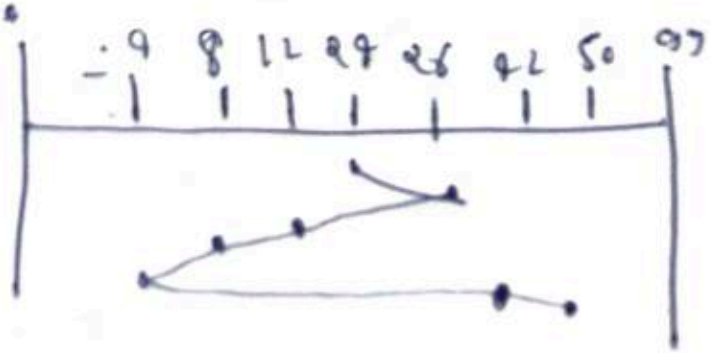
```
#include<stdio.h>
#include<stdlib.h>
int main()
{ int i,j,m=0,n;
  int d[6];
  int disk; // loc of head
  int temp, max;
  int ddoc; // loc of disk in array
Printf("Enter number of location (R1):
  scanf("%d", &n);
Printf("Enter position of head (#");
  scanf("%d", &disk);
Printf("Enter Element of disk queue);
  for(i=0; i<n; i++)
  { scanf("%d", &d[i]);
  }
  d[n] = disk;
  n = n+1;

for(i=0; i<n; i++) // Sorting disk loc asc
  { for(j=i+1; j<n; j++)
    { if d[i] > d[j].
```

Name- Rohit Bhandari
Course- BSc IT (A)
Student id- 20csit24
Subject- OS practical

Ans:-

Sol- SSTF: The movement of disk head from 19 to other is as shown in diagram



So, total head movement = 02+19+09+09+38+08 = 20 cylinders.

Seek time = 20*6 = 120msec = 0.12 sec.

Rohit