

Name - Abhay Suman
University Rno - 2023011
Student id - 20051065

Abhay

Subject - OS practical.

Date - 27th Aug, 2021

Q1.

```
#include <stdio.h>
```

```
int main ()
```

```
{
```

```
int fragments [10], blocks [10], files [10];
```

```
int m, n, number_of_blocks, number_of_files, temp, top = 0;
```

```
static int block_arr [10], file_arr [10];
```

```
printf ("Enter the Total number of blocks \t");
```

```
scanf ("%d", &number_of_blocks);
```

```
printf ("Enter the Total Number of files: \t");
```

```
scanf ("%d", &number_of_files);
```

```
printf ("\nEnter the size of Blocks \n");
```

```
for (m = 0; m < number_of_blocks; m++)
```

```
{
```

```
printf ("Enter the size of the files \n");
```

```
for (n = 0; n < number_of_files; n++)
```

```
printf ("Block No. [%d]: \t", m+1);
```

```
scanf ("%d", &blocks[m]);
```

```
}
```

```
printf ("Enter the Size of the files: \n");
```

```
for (m = 0; m < number_of_files; m++)
```

```
printf ("\n file Number \t file Size \t Block Number \t Block Size  
 \t Fragment");
```

```
for (m = 0; m < number_of_files; m++)
```

```
{
```

```
printf ("\n %d \t \t %d \t \t %d \t \t %d \t \t %d", m,  
 files[m], file_arr[m], blocks[file_arr[m]], fragments[m]);
```

```
}
```

```
printf ("\n");
```

```
return 0;
```

```
}
```

Abhay →


```
printf ("\n file Number \t file Size \t Block Number \t Block Size  
 \t Fragment");
```

```
for (m = 0; m < number_of_files; m++)
```

```
{
```

```
printf ("\n %d \t \t %d \t \t %d \t \t %d \t \t %d", m,  
 files[m], file_arr[m], blocks[file_arr[m]], fragments[m]);
```

```
}
```

```
printf ("\n");
```

```
return 0;
```

```
}
```

Abhay →

Enter the Total Number of Blocks: 3
Enter the Total Number of Files: 2

Enter the Size of the Blocks:

Block No.[1]: 5
Block No.[2]: 2
Block No.[3]: 7

Enter the Size of the Files:

File No.[1]: 1
File No.[2]: 4

| File Number | File Size | Block Number | Block Size | Fragment |
|-------------|-----------|--------------|------------|----------|
| 0 | 1 | 2 | 7 | 6 |
| 1 | 4 | 0 | 5 | 0 |

...Program finished with exit code 0
Press ENTER to exit console.