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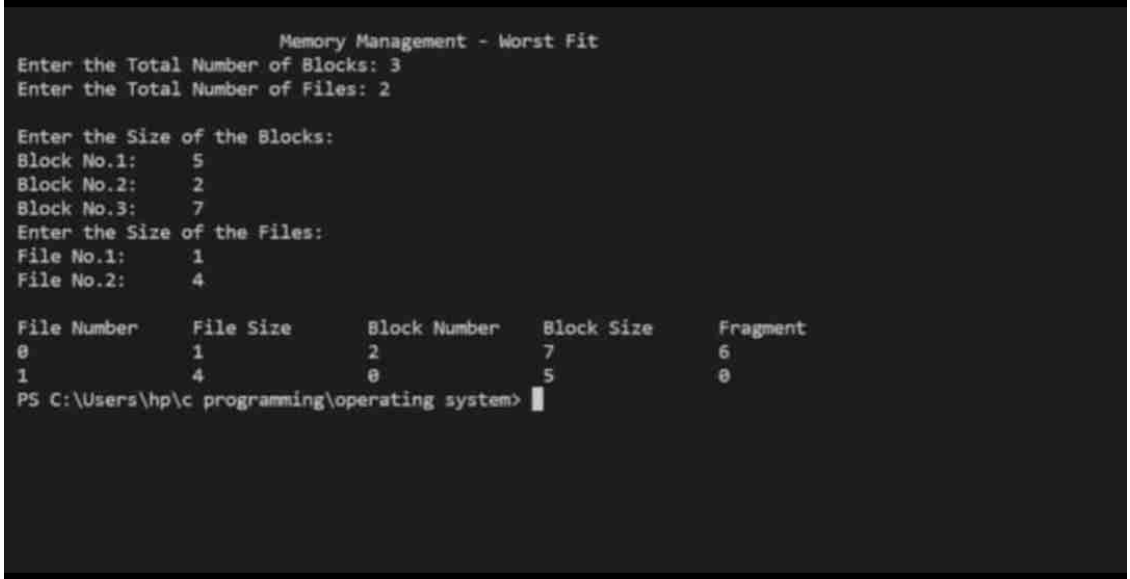
Sub - End term practicle of operating system
Course - BSc. IT


```
#include<stdio.h>
int main()
{
printf("\n\t\t\t\t memory management "" - worst fit");
int i, j, nblocks, nfiles, temp, top = 0;
int frag[10], block[10], files[10];
static int block_arr[10],
file_arr[10];
Printf("\nEnter the total number of blocks:");
Scanf("%d", &nblocks);
Printf("\n Enter the total number of files:");
Scanf("%d", &nfiles);
Printf("\n Enter the size of the blocks: \n");
for (i=0; i<nblocks; i++)
 {
Printf("Block No. %d:\t", i+1);
Scanf("%d", &blocks[i]);
 }
Printf(" Enter the size of files:\n");
for (i=0; i<nfiles; i++)
{
Printf("file No. %d;\t", i+1);
Scanf("%d", &files[i]);
}
```

```
for (i=0; i<nfiles; i++)
{
for (j=0; j<nblocks; j++)
{
if (block_arr[j]!=1)
{
temp = blocks[j] - files[i];
if (temp >=0)
{
if (top < temp)
{
file_arr[i] = j;
top = temp;
}
}
}
frag[i] = top;
block_arr[file_arr[i]] = 1;
top = 0
}
}
Printf ("\n file number \t file size \t" Block number \t Block
size \t fragment");
for (i = 0 ; i<nfiles ; i++)
{
Printf ("\n%od \t \t %od \t \t %od \t \t %od \t \t %od"
, i, files[i],
file_arr[i], blocks[file_arr[i]], frag[i]);
}
Printf ("\n");
return 0;
}
```


Memory Management - Worst Fit
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
PS C:\Users\hp\c programming\operating system>