

Graphic Era Hill University, Dehradun

Name: Ashish Panwar
Univ. Roll NO: 2023039
Student ID: 20051089
Course: B.Sc. [IT]
Sem: 2nd Sem

Section : 'A'
Subject Name : Operating
System
Subject Code : PBI-202
Campus : Dehradun
Page No : ①

Ans \Rightarrow (1)

```
#include <stdio.h>
int main()
{
    printf("\n\t\t\t\t\tMemory Management " " - Worst Fit");
    int i, j, nblocks, nfiles, temp, top = 0;
    int frag[10], blocks[10], files[10];
    static int block_arr[10], file_arr[10];
    printf("\nEnter the Total Number " " of Blocks:");
    scanf("%d", &nblocks);
    printf("Enter the Total Number " " of files:");
    scanf("%d", &nfiles);
    printf("\nEnter the size of the " " Blocks: \n");
    for (i = 0; i < nblocks; i++)
    {
        printf("Block No. %d: \t", i + 1);
        scanf("%d", &blocks[i]);
    }
}
```

Ashish
Panwar

27/08/2021

(2)

```

printf("Enter the size of the \"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;
                }
            }
        }
    }
    fsag[i] = top;
    block_arr[file_arr[i]] = 1;
    top = 0;
}
}

```

Ashish Panwar

27/08/2021

C:\Users\ASHISH PANWAR\Documents\11111.exe

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

Process exited after 57.61 seconds with return value 0

Press any key to continue . . . _