GRAPHIC ERA HILL UNIVERSITY, DEHRADUN

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DATE : 24/Aug/2021 Course : B.Sc IT Sem : 2 Section : A
Subject Name : OS Subject Code : TBI-202 Page No : 1

Ques-1

```
#include<stdio.h>
 int main()
{ printf("\n\t\t\tMemory Management ""-Worst Fit");
 int i, j, nblock, nfiles, temp, top=0;
 int frag[10], blocks[10], files[10];
 Static in block_arr[10], files_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("Enter the size
 Printf("Block No.%d:\t", i+1);
 Scanf("%d", &blocks[i]);
 }
 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)
```

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```
{
 if (top < temp)
{
 file_arr[i] = j;
 top = temp;
 }
 }
}
 frag[i] = top;
 block_arr[file_arr[i]] = 1;
 top = 0;
 }
}
printf("\nfile Number\tfile Size\t\t Block Number\t Block
      Size\tfragment");
{
 Printf("\n%d\t\t%d\t\t%d\t\t%d", 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

Process returned 0 (0x0)   execution time : 31.724 s
Press any key to continue.
```