Graphic Era Hill University, Dehradun
(Answer Sheet for Online Examination Aug. 2021)

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Name: Shivam Pang... Univ.Roll No. 2027098..... Student ID...2005101?.....
Date: 27 August Course: ...BSc IT.... Branch: ..... Sem.: II..... Section: ...B.....
Subject Name: Operating System..... Subject Code: PBI202 Page No. ...1...

Q.) C program for worst fit Memory Management Scheme.

```
#include <stdio.h>
int main()
{
    int i, j, nblocks, nfiles, temp, top=0;
    int frag[10], blocks[10], files[10];
    static int block_arr[10], file_arr[10];
    printf("\n Enter 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:");
    for(i=0; i<nblocks; i++)
    {
        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++)
        {
```

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```
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("\nFile Number\t File size\t Block Number
        \t Block size\t Fragment");
for (i=0; i<nfiles; i++)
{
    printf("\n%d\t\t%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;
}
```

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```
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.
```