Apoorv Negi   Std-id - 20051078
Bsc - IT   Roll No - 2023036
Sem - III
Sec - B

1)

```c
# include <stdio.h>
int main()
{
    printf("\n\t\t\t Memory Management" " Scheme - 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("\n Enter the Number" " of Blocks:");

    Scanf ("%d", &nblocks);
    printf(" Enter the Number" "of files:");

    Scanf (" %d", &nfiles);
    printf("\nEnter the Size of the" "Block :\n");
    for (i= 0; i < nblocks; i++)
    {
        printf(" Block %d: \t", i+1);
        Scanf ("%d", &block[i]);
    }

    printf("Enter the Size of the"."Files :\n");
    for (i=0: i<nfiles; i++)
    {
        printf("File %d :\t", i+1);
        Scanf ("%d", &files [i]);
    }
```

```c
for (i=0; i<nfiles; i++).
{
    for (j=0; j<nblocks; j++)
    {
        if (blocks_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 ("%d\t\t %d\t\t %d\t\t %d\t\t %d",
        i, files[i],
        files_arr[i], blocks [file_arr [i]], frag[i]);
}
printf ("\n");
return 0;
}
```

C:\Users\LENOVO\Documents\Untitled1.exe   —   □   ×

```
                    Memory Management Scheme - Worst Fit
Enter the  Number of Blocks: 3
Enter the Number of Files: 2

Enter the Size of the Blocks:
Block 1:        5
Block 2:        2
Block 3:        7
Enter the Size of the Files:
File 1: 1
File 2: 4

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


--------------------------------
Process exited after 45.26 seconds with return value 0
Press any key to continue . . .
```