Name: Nimeesha Agrawal   Section: B
Uni.Rollno   2023072   Date : 27/Aug/2021
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Ques 1: Write a C Program code for Worst fit Memory management Scheme.

Code :-

```c
# include <stdio.h>
int main()
{
int fragments [10], blocks [10], files [10];
int m,n, number of blocks, number of files, temp,
                          top = 0;
static int block_arr [10], file _arr [10];
printf ("\n Enter the Total Number of Blocks :\t");
scanf ( "%d", & number_of_blocks);
printf ( "Enter the Total Number of Files :\t");
scanf ("%d", &number _of files);
print f ("\n Enter the Size of Blocks:\n");
for (m = 0; m < number_of_blocks; m++)
{
print f ("Block No. [%d] :\t", m+1);
```

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        scanf ( "%d", &blocks [m]);
    }

    printf ("Enter the size of files :\n");
    for (m = 0; m < number_of_files; m++)
    {
        printf ("File No. [ %d] :\t ", m+1);
        scanf ("%d", &files [m]);
    }

    for (m = 0; m < number_of_files ; m++)
    {
        for (n = 0; n < number_of_blocks ;n++)
        {
            if (block_arr [n] != 1)
            {
                temp = blocks [n] - files [m];
                if (temp >= 0)
                {
                    if (top < temp)
                    {
                        file_arr [m] = n;
```

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                top = temp;
            }
        }
    }
    fragments [m] = top;
    block_ au [file _ au [m]] = 1;
    top = 0;
    }
}

print f ("\n file Number\t File Size \t Block
              Number | t Block Size |tfragment");
for ( m=0 ; m < number_ of _files ;m ++)
{
print f (" \n %.d \t \t %.d \t \t %.d \t \t %.d \t \t %.d \t%\t \t%.d;
    m, files [m], file _ au [m],
            blocks [ file _au [m]], fragments(m);
    }
    print f ("\n");
    return 0;
}
```

```
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


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Process exited after 71.55 seconds with return value 0
Press any key to continue . . .
```