**Graphic Era Hill University, Dehradun**
**(Answer Sheet for Online Examination Aug. 2021)**
Please tick (√) your campus: (DEHRADUN/BHIMTAL/HALDWANI)
Name: Aman Kathari...... Univ.Roll No. 2023025..... Student ID 20051022......
Date: 27/8/2021.. Course: BSc.(C.I.T.)... Branch: ............ Sem.: 2nd.... Section: ...B......
Subject Name: Operating System............ Subject Code: ......... Page No. ..1......

Ans 1- WAP for worst-fit memory management scheme

input - no. of blocks: 3, no. of files. 2, size of block 1 = 5, Block 2 = 2, Block 3 = 7 & file 1 = 1, file 2 = 4.

```c
#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 ("Enter the number of blocks:");
scanf ("%d", &nblocks);
printf ("Enter 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]);
}
printf ("Enter the size of the file:\n");
for (i=0; i < nfiles; i++)
{
printf ("File No. %d:\t", i + 1);
scanf ("%d", & files [i]);
}
```
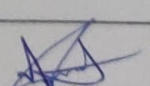
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```c
for (i=0; i<nfiles; i++)
{
    for (j=0; j<nblocks; j++)
    {
        if (block_arr[j] != 1)
        {
            temp = blocks[j] - files[i];
            if (temp >= 0)
            {
                temp if (top < temp)
                {
                    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("\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]);
}
return 0;
}
```