Name - Akash Rawat
University Roll No - 2023022
Student ID - 20051078
Subject - Operating System
Date - 27-08-2021

Paper Code - PBI-202

Akash

Ques1

Ans

```c
# include <stdio.h>
int main()
{
Printf ("\n\t\t\ Memory Management""- Worst Fit");
int i, j, n blocks, 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", &n blocks);
Printf (" Enter the total Number""" of files.");
Scanf ("%d", &nblocks);
Printf ("\n Enter the size of the""" Blocks: \n");
for (i=0; i < nblocks; i++)
{
Print f (" Block No.%d: \t", i+1);
Scanf (" %d", & blocks [i]);
}
Print f (" 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 < n files; i++)
{
for (j=0; j < n blocks; j++)
{
if (block_arr [j] != 1)
```

```c
{
    temp = blocks [j] - files [i];
    if ( temp >= 0)
    {

        file - arr [i] = j;
        top = temp;

    }

}

    frag [i] = top;
    block _ arr [ file - arr [i]] = 1;
    top = 0;

    }
}

Print f("\n file Number \t file Size \t "" Block
Number \t Block Size \t fragment ");
for (i = 0; i < n files; i ++)
{

Print f("\n file Number \t file Size \t "" Block
Number \t Block Size \t fragment ");
for (i = 0; i < n files; i ++)
{
Print f( 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]);

}

print f(" \n ");

return 0;
}
```

Akash

▶ Run | ⊙ Debug | ■ Stop | ✆ Share | 🖬 Save | {} Beautify | ⬇ | Language C ⌄ 🛈 ⚙

main.c

```
41  if (top < temp)
42  {
43  file_arr[i] = j;
44  top = temp;
```

Editor Theme: Dark ⌄

Editor Mode: Normal ⌄

input

```
                    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


...Program finished with exit code 0
Press ENTER to exit console.
```