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Class Roll no.:- 31

Subject:- Operating System

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27-08-21.

Page no-1

Answer-1 :- C Program code for Worst Fit Memory Management Scheme:-

```
#include <stdio.h>
#include <conio.h>
#define max 25
void main()
{
    int
    frag [max], b [max], f [max], i, j, nb, nf,
    temp, highest = 0;
    static int bf [max], ff [max];
    printf ("\n Enter the no. of blocks : ");
    scanf ("%d", &nb);
    printf (" Enter the no. of files.\n");
    scanf ("%d", &nf);
    printf (" Enter the size of the blocks : \n");
    for (i = 1; i <= nb; i++)
    {
        printf ("Block %d : ", i);
        scanf ("%d", &b[i]);
    }
```

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Page no-2

```
printf ("Enter the size of the files : \n");
for (i=1 ; i<=nf ; i++)
{
    printf ("File %d:", i)
    scanf ("%d", &f[i]);
}
for (i=1; i<=nf; i++)
{
    for (j=1; j<=nb; j++)
    {
        if (bf[j] != 1) // if bf[j] is not allocated
        {
            temp = b[j] - f[i]; if (temp >= 0)
            if (highest < temp)
            { ff[i] = j;
              highest = temp;
            }
        }
    }
    frag[i] = highest;
    bf[ff[i]] = 1;
    highest = 0;
}
```


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Page no. 3

```
printf (" \n file - no: \t file - size : \t block - no: \t  
block - size : \t fragment ");  
for (i = 1; i <= nf; i++)  
printf (" \n %d \t \t %d \t \t %d \t \t %d \t \t %d",  
i, f[i], ff[i], b[ff[i]], frag[i]);  
getch();  
}
```

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input

```
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_no:      File_size :      Block_no:      Block_size:      Fragement
1             1             3             7             6
2             4             1             5             1
...Program finished with exit code 0
Press ENTER to exit console.
```

Type here to search

13:58

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