Graphic Era Hill University, Dehradun

Name: Akanksha Dabral Sec: B Date: 27/Aug/2021

Roll no: 2023017 Univ Id: 20052048 Subj: OS End term practical BBI-202

Ans

```
# include <stdio.h>
  int main()
  {
  printf("\n\t\t\t\t Memory Management" "-worst fit");
  int i,j, nblocks, nfiles, temp, top=0;
  int frag[10], blocks[10], files[10];
  printf("\n Enter the total number" "of Blocks:");
  scanf("%d", nblocks);
  printf(" Enter the number" "of files:");
  scanf("%d", nfiles);
  printf(" Enter the size of the Blocks:\n");
  for(i=0; i<n blocks; i++);
  {
  printf(" Block No. %d:\t", i+1);
  scanf("%d", &blocks[i]);
  }
  printf(" 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<nfiles; i++)
```

Akanksha

```
{
for(j=0; j<nblocks; j++)
{
if(block_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("\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]);
}
Printf("\n");
return 0;
}
```

Ananthu

main.c

Run

```
30  temp = blocks[j] - files[i];
31  if (temp >= 0)
32  {
33  if (top < temp)
34  {
35  file_arr[i] = j;
36  top = temp;
37  }
38  }
39  }
40  frag[i] = top;
41  block_arr[file_arr[i]] = 1;
42  top = 0;
43  }
44  }
45  printf("\nFile Number\tFile Size\t""Block Number\tBlock Size\tFragment");
46  for (i = 0; i < nfiles; i++)
47  {
48  printf("\n%d\t\t%d\t\t%d\t\t%d\t\t%d"
49  , i, files[i],
50  file_arr[i], blocks[file_arr[i]], frag[i]);
51  }
52  printf("\n");
53  return 0;
54  }
```

Output

Clear

```
/tmp/kYhmn9Ba6P.o
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
2Block No.2:    2
Block No.3: 7
Enter the Size of the Files:
File No.1:  2
File No.2:  5
File Number File Size   Block Number    Block Size  Fragment
0       2       2       7       5
1       5       0       5       0
```