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S.No: 8 Exp. Name: Write a program to Implementation of Contiguous allocation technique: - Best-Fit Date: 2022-05-06
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Aim:

Write a program to Implementation of Contiguous allocation technique: - Best-Fit

Source Code:

```
bestFit.c
#include<stdio.h>
#define max 25
void main(){
   int frag[max],b[max],f[max],i,j,nb,nf,temp,lowest=10000;
  static int bf[max],ff[max];
   \verb|printf("Memory Management Scheme for contigus memeory allocation - Best Fit\n");\\
   printf("Enter the number of blocks:");
  scanf("%d",&nb);
   printf("Enter the number of files:");
   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]);
   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){
           temp=b[j]-f[i];
           if(temp>=0)
           if(lowest>temp){
               ff[i]=j;lowest=temp;
        }
      frag[i]=lowest;
      bf[ff[i]]=1;
      lowest=10000;
  printf("File No\tFile Size \tBlock No\t\Block Size\t\Fragment");
```

Execution Results - All test cases have succeeded!

printf("%d\t\t%d\t\t%d\t\t%d",i,f[i],ff[i],b[ff[i]],frag[i]);

for(i=1;i<=nf && ff[i]!=0;i++)</pre>

}

```
Test Case - 1
 User Output
Memory Management Scheme for contigus memeory allocation - Best Fit 3
Enter the number of blocks: 3
Enter the number of files: 2
Enter the size of the blocks:- 5
Block 1:5
Block 2: 1
Block 3:4
Enter the size of the files :- 3
                                                                                                                                                     2020-24-IT-C2
File 1: 3
File 2: 4
File No File Size
                         Block No
                                         Block Size
                                                          Fragment1
```

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