Ex. No.: 10b) Date: 10/04/25 FIRST FIT Aim: To write a C program for implementation memory allocation methods for fixed partition using first fit. Algorithm: 1. Define the max as 25. 2: Declare the variable frag[max],b[max],f[max],i,j,nb,nf,temp, highest=0, bf[max],ff[max]. 3: Get the number of blocks, files, size of the blocks using for loop. 4: In for loop check bf[i]!=1, if so temp=b[j]-f[i] 5: Check highest Program Code: # include < stdio. h # define MAX 25 int main () int bo[Max], bo[Max], bc, fs[Max], fc, abloc[Max], fragment [MAX]; printf (" Enter no of Memory Blocks (max 1,d): "MAX) scanf (" ",d", & bo); printf ("Enter size of Each Block: \n"); for (int 1=0; 12 bc; 1++) printf (" Block ".d size.", i+1); scanf (" ".d", & Block bs [i]); bo [i] = be[i]; printf ("In Enter no of Piles (max " d): ", MAX);

3

3

3

3

3

3

3

-

-

3

-

-

3

-

)

-

)

-

)

)

.

•

-

scanf (""/d", &fc);

```
printf L" Enter size of cach file: \n");
for (int i = 0; i < fc; i++)
   printf L" File ".d size. ", i+ 1);
   sconf (" 1.d", & fite Bize [1]);
   abboc [i] = -1;
   fragment [i]= 0;
 3
for (int i = 0; i < fc; i++)
for Cjnt j=0; j < bc; j++)
    if (bs [j] > = fs [j])
        alloc [i] = j;
       fragment [i] = bs [j] - fs [i]
        bs[j] -= fs[i]
       break;
  7
printf ("In File Nolt File Size ) + Block Nolt Block Size | t
                                               Fragment In")
for (.int i=0; i < fc; i++)
f printf ("",d|t \t'", i+1, fs[i]);
  if Calloc [i] !=-1)
    int bno = alloc [i];
    printf ("1.d/t/t 1.d/t/t 1.d/n", 600+1, 60 [600],
                                             fragment [i]);
  }
else
     printf ("Not Albocated It - It It - In");
return oi
```

3

0

0

3

2

3

3

3

3

-3

-3

-3

-

-

-

3

-

9

-

3

9

)

)

)

)

-

-

Output :-

Enter no of Memory blocks: 4

Block 1 size: 300

Block 2 Wize: 250

Block 3 Size : 400

Block 4 Size , 500

Enter no of files: 4

File 1 stze: 212

File 2 size: 200

File 3 size: 312

File 4 Size : 417

File No	Filesize 212	Block No	Block Size 250	Fragmen 1
1	200	1	300	100
2	312	3	400	83
a a	417	4	500	83

Sample Output:

```
Enter the number of blocks:4
Enter the number of files:3
Enter the size of the blocks:-
Block 1:5
Block 2:8
Block 3:4
Block 4:10
Enter the size of the files:-
File 1:1
File 2:4
File 3:7
                                                                     Block_no:
                                  File_size :
  'lle_no:
                                                                                                       5
                                                                     12
                                                                                                        10
```

Result:

Hence the First Fit Algorithm is Implemented and Executed