Ex. No.: 10 b
Date: 30, 4.24

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[j]!=1, if so temp=b[j]-f[i]

5: Check highest

```
Program Code: // hystfit C
#include (statio. h)
# in define max 25
void main() 5
      int frag (max), b (max), f[max], i, j, nb, nf, temp;
      static int bf(max), ff(max);
       printf (" Enter no. of blocks: 80");
      sourf (" 1.d"; knb);
      Printf ("renter no. of files: ");
       scanf("1-d" knf);
       printer in satu size of blocks:-In");
        for (i=0; i(nb; i++) {
                 printf (" Block 'Vod", i+1);
                 scanf(" 1.d", & bCi));
         printfl" in unter size of file:- ");
          Por (i:0; i(nf; i+1)2
Printf("Fiu 7d", i+1);
                scanf("1.d", &f(i3);
```

```
for lim i=0; i(nf; i++)&
         for (j=0;j(nb;j++){
                 if (1000bfCj] 1=1) 2
                           temp = bGj]-fci];
                            if (temp>=0) {
                                   ff CiJ=j;
                                   break;
                    2
            frag (i) = temp;
            bf[ff[i]]=1;
for printfl" In File No. : It File Size: It Block No: It Block Size: It Fragment In")
 for li=0;i<nf;i++)%
         printfl" 1.d lele 1.d lele 1.d le le 1.d le le 1.d lu", i, f (i), b [FFCi],
             frag (i);
```

Output: ga firstfit.c

ante no. of blocks: 3

ante no. of files: 4

Enter size of blocks:

Block 1: 3

Block 2: 6

Block 3: 2

conta size of files:

File 1: 7

Filu 2: 3

File3: 6

Filey: 4

File No	File Size	Block No	Block Size	Fragment
0	# /	O	3	-5
1	3	1	6	3
2	6	O	3	-4
3	4	0	3	-2

RECOUT:

The program has been compiled and executed successfully.