Ex. No.: 10b)
Date: 11/4/25.

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

5: Check highest

Program Code:

```
Include < Stolio n7

int main () L

int n, m fragn[max], b[max], f[mox], i,j,nb,nF.

state int bf[max], ff[max];

printf("Entir numure of blocks:");

Scory (" '.d", & nb);

printf(" In Entir Size of each block: Nn");

bor (i=0; i < nb; i + t) L

printf("Block '.d = ", i + t);

Scory (" '.d ", & b[i]);

}

printf("In Entir Size of Each file: (n");

for (i=0; i < nf; i+t) L

printf("File '.d:" i + t);

Scory (" '.d", & F[i]);

3.
```

```
for ( i=o; ien F; i++ )1
     for (1=0, scnb; st+) 1
         if (bF[j] == 0 && b[j] >=f[i])h
               H [i] =);
               pag [i]=b[j]/[i];
               b/ (j]=1)
              break;
        il (i == nb) 4
          A Cil=-1
          Hag [i]=-1;
  print ("In file Nolt File size It block Nolt block size It
         pea gmont In");
     for (i=o; icnf; i+)K
            Print F(" " a It") a It', a IF / dIt / d/n
            if (H[i] !=-1)2
                  i+1, & [1], | + [1]+1, 9[H [1]], beg [1]);
             T
            else L
              print? ("Y.a It /. a It 16 Not socilted It 16
                                            11-11n";
                                          (+1; F[1]);
```

Sample Output:

```
Enter the number of blocked
Enter the number of libes;

Enter the size of the blocks;

Block 3:4
Block 3:4
Block 4:10
Enter the size of the files;

Este 1:4
File 2:4
File 3:7
File act

F
```

'all=

Result:

C program for complementation of first Fin memory ellocation has breen executed successfully