Ex. No.: 10b)
Date: 11. 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[j]!=1, if so temp=b[j]-f[i]

5: Check highest

Program Code:

```
# include 2 stdio. h)
int main () f
  int n, m;
  scanf (" y.d ", &n);
  scanf (" 1.d", & m);
  int block [n];
   int process [m];
   int allocation [m];
   for (ind i = 0; icm; i++) {
     allocation [i] = -13
    int occupied [n];
for lint i=0; i<n; i++)
     { occupied [iJ = 0;
```

```
for 19nd i=0; i<n; i++) {
    scanf ("Y.d", & block [i]);
for (int 1 = 0; i < m; i ++) {
      scanf ("y.d", 2 process [i]);
  for (inti = 0; i < m; i++)
    {for lint j=0; j<n;j++)
      E if (! occupied [i] & & block [si] >= process [i])
          { allocation [i] = J;
            occupied [j] = 1;
             blocks [j] -= process [i];
             printf (" y.d", block [j]);
    3 3 break;
                                               Block No");
                                Process cize
     printf (" In Process No
     for (int i=0; i<m; i++)
     Žif (allocation [i]! = −1)
         { printf ("In y. d It It y. d It It y.d", i+1,
                            allocation [[]+1);
       else & printf (" \n 1. d \t\ y.d \t\ Not allocated",
                                      process[i]);
```

Sample Output:

Enter the number of procus: 4 Enter the number of block: 5 Enter the sizes of process: 212 417 112 426

Enter the size of blocks: 100 500 200 300 600 Blocksize cragment Process no. prous size Block no not allocated

Result:
Thus the c program for first fit memory
allocation has been executed successfully.

8 li