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:

こうこうこうこうこうこうにっていなんなんなんなんなんなんなんなんなん

# include Lstdio. hy int main () {

int n, m; Scant ("10d", &n); Scant ("10d", &n); Int block [n]. int process (m); int auocation (m); footint 1=0; 1<m; 1++) } allocation [i]=-1; int occupied [n]; for lint i=0; i kn; i++) occupied[i]=0; 62

```
for (int 1=0; ixn; it+) }
      Scant ("%d", & block [i]);
for (int i=0; i Lm; i++) s
      Scanf (" god", & process [i]);
for (int 1=0; i < m; i++)
   for lint j=0; j<n; j++)
      if ( & occupied [j] && blocks[j] >= process [i])
         eulocation[i]=1;
          Occupied [j]=1;
          blocks [i] = process[i];
         printf("o/od", blockstij);
         break;
printf ("In Process No Process size
                                                Block NO");
for lint (=0; (Km; i++)
  If (allo cation [i] = -1)
    Printf ("In %d Hit o/d Htt o/d", "HI, Process [i],
    auocati on [i]+D:
 Felse S
   printf(" in 1/0d It It Not allocated", "It),
   Process[1]);
                           63
```

# Output:

Enter no-of blocks: 4

Block size:

B1 - 100

B2 - 500

B3 - 150

B4 - 300

Enter no-of processes: 3

Process size:

P1 - 99

P2 - 211

Popules No
Pi
B
P3

P3 - 300

Process 513e
99
211
300

Block NO BI B2 B4

#### 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
File 3:7
File_no: File_size: Block_no: Block_size: Fragment
1 1 5 4
2 4 2 8 4
3 7 4 10 3_
```

Hence, first fit momory management has been successfully executed.