Ex. No.: 10b) Date: 11/4/2025

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 C) [int n, m; Scanf ("/.d", ld n); Scanf ("/.d", ld m); int block [h]; int block [m];
int process [m];
int allocation [m];
int allocation [m];
int occupied [m];
int occupied [m];
for (int 1=0; 12m; 1++)

Caccupied [i] = 0;

for (int i=0; i c m; i++) { Scanf ("Y.d", & block [i]) for (int i = 0; i < m; i++)[
Scant ("1.d", & process [i]); for (int i=0; i < m; i++) for (int j=03 jznjj++) c if (1. occupied [i] & & blocks[i] >= process[i]) allocation[]=5 occupied [i] = 15 blocks [i]= porocess [i]; Brint & (" Y. d", block Eil) Jereak; Printf ("\n process NO Brocess singe block NO");
for (int i=0; iz m; i++) C if (allocation [] = -1) Buit S("\n y.d(t | t y.d | t | t y.d", i+1, forocess[i];
allocation [i]+1; Buints ("In 1.d It It / d It It Not allocation," i+ I else ! Brocess [1]

Cutput

Enter no of blocks: 4

Block sige i

BI - 100

B2 - 500

B3 - 150

B4 - 300

Enter no of processes:3

Pure 88 81 Je: P1 - 99 P2 - 211 P3 - 300

Brocess NO Brocess sing Block NO
P1 99 B1
P2 211 B2
P3 300 B4

Sample Output:

Result thence first fit memory management was successfully executed

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