Ex. No.: 10b) Date: 10 10 4 1 2 5

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 a stdia - R> # define MAX 25

int main () 5 int frag [MAX], b[MAX], F[MAX], bf [MAX] = 863, ff [MAX]; int nb, nf, i, j, temp;

frints (Enter the number of blocks: ");

scarf (" % d", & nb); fruit (" Enter the no of files: "); scanf (" dod", &nf), brunt ("In Enter the size of the black: \n"); for (i=0) i < nb; i++) \$ Aprinty (" Block 1.d:", i+1); fruit (" (n Enter the size of the files: \n"),.

fruit (" \n Ends the sign of the file : (n"); for (i=o; i ent; i+t) { fruit (" File "od:", i+1),. y scarf (" 9.d", & + [:]) for (i=o; i=nf; i+1)p for Ci=o; jc nb; j++) & ACPLR21 = 126 ting = blg)-flig if chimp >=0)8 アイ レンコニタナ Brag [i] = lemp; 3 4 break; 4 (j==nb) FACiD=-1; 3 frag [i]=-1, fruity (" In File No It File Size It Block No 16 Block Size It Fragmetitie") for (x=o; icnt; it)f Auntilain %dit fod (tle "L'+1, F[i]),. \$ (TPCi)! =-1) { printy Com/od (Elt % d lelt ". d", ff [i] + 1, b[FF [i], b[i] 3 esc 5 fruit ("Not Allocated It - It It - "); y suthern 6;

Sample Output:

```
Enter the number of blocks:1
Enter the size of the blocks:
Nlock 1:5
Block 2:8
Rlock 3:4
Block 4:10
Enter the size of the files:-
File 1:1
File 2:4
File 3:7
File size: Nlock no: Nlock size: Prognent
1 1 5 4
2 4 2 9 4
3 7 4 10 3_
```

Enter the no of blocks: 3 Enter the no of files 2

Enter the size of the blocks: Block 1:10.0 Block 2:200

Block 5: 300

Enter the sing of the felis:

File 1: 150

File 2: 250

File no File sign Block no Block sign & ragmentation 150 2 200 50

Result: 300 50

Thus the program to implement Frist Fit memory allocation kicknique using C has been executed succenfully.

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