Ex. No.: 10b)

Date: 10/04/2025

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 (stdio h)

define MAX 25

int main () {

int fragemax], bemax], femax], bfemax] = {o};

ffemax];

unt mb, nf, i, j, temp;

printf("enter the no of blocks:");

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

printf("finter no of fills:");

scanf("'.d", & nf);

printf("In enter the size of blocks:\n");

for (i = 0; i inb; i++) {

printf("Block id:"i+1);

scanf("'.d", & beij);

}

Block 100 200 300

150 250

		the same of the sa	
Fin	fle size	Block.No	Fragmentation
1	150	2	50
2	250	∧cas (xA)	A La Maria del
A.		3 [XA	50

```
prints ("In Enter the size of file In")
 for (i =0; i Lnf; i++){
          printf ("File y.d:", i+1);
           scanf ("1.d", &f[i]);
 3
 for (i=0; ilnf; i++){
           for (j = 0; j Lnb; j++) {
                    if (bf (j)! =1) {
                        temp = b[j] - f[i];
                       if (temp) = 0) {
                                fri]=j;
                                bf(j] = 1;
                                frag (i] = temp;
                                break;
                          3
                     4
               if (i = = nb) {
                     ff[i] = -1;
                     fragsij = -1;
                 3
     3
  Printf (" In File Nolt File Size | t Block No | t Block Size | t Fragment
                                                     -ation").
  for (i=0; i Lnf; i++){
          exints ("In valevalelt", i+1, fris);
           3 (I-=![i] 77) di
                    print ("ValtIt valt It It val", ff [i] +1, b[ ff[i]],
           3 else {
                                                      frag [i]);
                 Prinf ("Not Allocated) + +++-1).
     returno.
                          63
```

3

1

0

D

13

3

3

3

9

9

Sample Output:

3

3

3

3

3

3

3

3

)

```
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:-
ile 1:1
ile 2:4
 ile 3:7
 ile_no:
                                                                     Fragment
                                                    Block_size:
                 File_size :
                                  Block_no:
                                                    5
                                                                     1
                                                    B
                                                                     3_
                                                    10
```

Enter the no. of blocks: 3
Enter the no. of files: 2
Enter the Size of the blocks:
Block 1: 100
Block 2: 200
Block 3: 300
Enter the Size of the files:
File 1: 150

filho filesize Blacks Blacksize Fragment 1 150 2 200 50 2 250 3 300 50

Result:

file 2: 250

altocation technique using c has been executed