Ex. No.: 10b) Date: 10/4/25 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 L stdio. h> # define MAX25 int main () { int frag [MAX], f[MAX], f[MAX], ff[MA int i, j, hb, nf, temp; Printf ("Enter the number of memory block: "); Print ("Enter the style of each memory block: \1 for (1=0; 1<nb; 1+1){ print f ("Block % d" 1+1); scount (" 1. d", &nf); Print ("Enter the size of each file: In"); for (?= 0; T < nf; ?++){ Rintf (File 7.d: 62, (+1); scanf("".d", & + [i]);

for (1=0; i < nf: i++){ for (j=0; j < nb; j++){ if (bf[i]] == 0 29 b[i] > = f[i]){ A [i] = j; bf [j] = 1; frag [1] = b[j] -f[1]; break; if (j== nb){ 祖[门=一门 Printf ("In FileNo. It File sige It Block No. It Block sige It Fragment (n"); V for (1=0; 12 nf; 1++){ Print (" 1. d | t | t ", i + 1, f [i]); 华(代门!=-1) printf("Y. dlt lt x. d lt lt x. dln", ff [i] +). 6[ff[i]], prag[i]); else 3 printf("Not allocated It-ItIt-In"); 7

The foreignent of black avec 80 15 23 5 11 20

Process Process-size Block No Tragment P, 20 P2 30 P3 50 20 P4 40 b5 5 10 23

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Sample Output:

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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
 ile_no:
                File size :
                                Block_no:
                                                Block_size:
                                                                Fragment
                                2
                                                8
                                                10
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Result:
Using & C progress the first fit memory
allocation algorithm is implemented