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

- Declare the variable frag[max],b[max],f[max],i,j,nb,nf,temp, highest=0, bf[max],ff[max]. 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 < stdiah >
# deline MAY 25
int main() }
    int fragiment, biment, fsmant, of [MART, FI [MART)
    int i, jinb, nf, temp;
    printf ("Enter the number of memory blocks:");
   Scanf (" Ted' 2 nb);
   printf (" Enter the size of each memory block: \n");
   for (i=o, ichb, i+t) 2
          print ("Block God: ,iti)
          Scant (" ?d', 2 b[i]),
  Printer"
          printf("Enter the number of tiles processes:");
scanf("70d", 1 nf);
printf("Enter the size of each file: \n");
           for (1=0; i < nf ; i+1) {
    printf ("File id: ", i+1);
                   Scanf (" 7.d , & fsij);
```

```
for ( 9=0, 1 = nf, 711)2
      for (j=0; 1<115; 111)?
            5(Ci27=< [j2d110=-[j27d)21
                   if - Ci] +1
                    31=17-13
                    fraglid= blid- Plid,
                    break;
      3 of (j==nb)?
printf (" InFibro It File Size It Block No It Block size It Fragment In"),
for ( 1=0; 1 < nf; 1+29
       printf("%d/e/e %d/e/e", "+1, f ["]);
if (ff [i] ! = -1)
              print f (" % d lete % d let % d lm", PF[i]+1, b[ff[i], Prag(i]);
       else
              printf (" Not Albeated It - Itit - In");
3
```

## 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
                                                              Block_size:
                                                                                  Fragment
file_no:
                     File_size :
                                         Block_no:
                                                              8
                                                              10
```

the fragment of blocks one

80 23 20

D N	Drows gize	Block_No	Fragment
Process No		1	30
Pi	30	2	1.5
P2	50	05	20
P3	140	4	•5
Pr	10	3	20.

Using C program the first fit memory allocation of digarterm's implemented.