```
Ex. No.: 10b)
Date:
```

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:

break;

```
#include <stdio.h> #include <conio.h> #define max 25
void main() { int frag[max], b[max], f[max], i, j, nb, nf, temp; static int bf[max], ff[max];
clrscr();
printf("\nEnter the number of blocks: ");
scanf("%d", &nb);
printf("Enter the number of files: ");
scanf("%d", &nf);
printf("\nEnter the size of the blocks:\n");
for (i = 1; i \le nb; i++)
  printf("Block %d: ", i);
  scanf("%d", &b[i]);
printf("Enter the size of the files:\n");
for (i = 1; i \le nf; i++)
  printf("File %d: ", i);
  scanf("%d", &f[i]);
for (i = 1; i \le nf; i++)
  for (j = 1; j \le nb; j++) {
     if (bf[i]!=1) {
       temp = b[j] - f[i];
       if (temp \ge 0) {
          ff[i] = i;
          frag[i] = temp;
          bf[ff[i]] = 1;
```

```
}

printf("\nFile_no:\tFile_size:\tBlock_no:\tBlock_size:\tFragment");
for (i = 1; i <= nf; i++) {
    printf("\n%d\t\t%d\t\t%d\t\t%d\t\t%d", i, f[i], ff[i], b[ff[i]], frag[i]);
}

getch();

}
</pre>
```

Sample Output:

```
Enter the number of blocks:4
Enter the number of files:3
Enter the size of the blocks:-
Block 1:5
Block Z:8
Block 3:4
Block 4:10
Enter the size of the files:-
File 1:1
File 2:4
File 3:7
File_no:
                 File_size :
                                  Block_no:
                                                    Block_size:
                                                                     Fragment
                 1
                                  1
                                                                     4
                 4
                                  2
                                                    8
                                                                     4
                                   4
                                                    10
                                                                     3_
```

Output:

Result:

Program is successfully executed and output is verified.