```
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:**

```
#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<=nf;i++)
for(j=1;j<=nb;j++)
if(bf[j]!=1)
temp=b[j]-f[i];
if(temp > = 0)
```

```
ff[i]=j;
break;
}
}
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>
```

## **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
                                                  5
                                                                   4
                4 7
                                 2
                                                  8
                                                                   4
                                 4
                                                  10
                                                                                 52
```