OPERATING SYSTEM - CS23431

EXP 10(B)

FIRST FIT

NAME: LOKAA V

ROLL NO: 231501085

PROGRAM:

```c
#include<stdio.h>
int main(){
 int n1;
 printf("Enter memory block size: ");
 scanf("%d",&n1);
 int mem[n1];
 printf("Enter value of memory blocks: ");
 for(int i=0;i<n1;i++){
 scanf("%d",&mem[i]);
 }
 int n2;
 printf("Enter process block size: ");
 scanf("%d",&n2);
 int p[n2];
 printf("Enter values of process blocks: ");
 for(int i=0;i<n2;i++){
 scanf("%d",&p[i]);
 }
 int frag[n1],alloc[n2],emp[n1],allocsize[n2];
 for(int i=0;i<n1;i++){
 emp[i]=1;
 }
 for(int i=0;i<n2;i++){
 alloc[i]=-1;
 }
 for(int i=0;i<n2;i++){
 for(int j=0;j<n1;j++){
 if(emp[j] && mem[j]>=p[i]){
```

```
alloc[i]=j;
allocsize[i]=mem[j];
frag[i]=mem[j]-p[i];
emp[j]=0;
break;
}
}
}
printf("FileNo\tFilesize\tBlockNo\tBlocksize\tFragment\t\n");
for(int i=0;i<n2;i++)
{
printf("%d\t%d\t%d\t%d\t%d\n",i,p[i],alloc[i],allocsize[i],frag[i]);
}
}
```

OUTPUT:

```
Enter memory block size: 4
Enter value of memory blocks: 5
8
1
10
Enter process block size: 3
Enter values of process blocks: 1
4
7
FileNo  Filesize        BlockNo Blocksize       Fragment
0       1       0       5       4
1       4       1       8       4
2       7       3       10      3
```