

S.No: 10

Exp. Name: **Write a program to Implementation of contiguous memory fixed partition technique(MFT)**

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**Aim:**

Write a program to Implementation of contiguous memory fixed partition technique(MFT)

**Source Code:**

fixedPartitionTechnique.c

```

#include<stdio.h>
#include<conio.h>
int main(){
    int m,p,s,p1;
    int m1[4],i,f,f1=0,f2=0,fra1,fra2,s1,pos;
    printf("Enter the memory size:");
    scanf("%d",&m);
    printf("Enter the no of partitions:");
    scanf("%d",&p);
    s=m/p;
    printf("Each partn size is:%d",s);
    printf("Enter the no of processes:");
    scanf("%d",&p1);
    pos=m;
    for(i=0; i<p1; i++){
        printf("Enter the memory req for process%d:",i+1);
        scanf("%d",&m1[i]);
        if(m1[i]<=s){
            printf("Process is allocated in partition%d\n",i+1);
            fra1=s-m1[i];
            printf("Internal fragmentation for process is:%d\n",fra1);
            f1=f1+fra1;
            pos=pos-s;
        }
        else{
            printf("Process not allocated in partition%d\n",i+1);
            s1=m1[i];
            while(s1>s){
                s1=s1-s;
                pos=pos-s;
            }
            pos=pos-s;
            fra2=s;
            f2=f2+fra2;
            printf("External fragmentation for partition is:%d",fra2);
        }
    }
    printf("Process\tmemory\tallocatedmemory");
    for(i=0;i<p1;i++){
        printf("\n%5d\t%5d\t%5d",i+1,s,m1[i]);
        f=f1+f2;
        printf("\nThe tot no of fragmentation is:%d",f);
    }
}

```

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Execution Results - All test cases have succeeded!

Test Case - 1		
User Output		
Enter the memory size: 500		
Enter the no of partitions: 4		
Each partn size is:125Enter the no of processes: 4		
Enter the memory req for process1: 100		
Process is allocated in partition1 200		
Internal fragmentation for process is:25 200		
Enter the memory req for process2: 200		
Process not allocated in partition2 100		
External fragmentation for partition is:125Enter the memory req for process3: 100		
Process is allocated in partition3 50		
Internal fragmentation for process is:25 50		
Enter the memory req for process4: 50		
Process is allocated in partition4		
Internal fragmentation for process is:75		
Process memory    allocatedmemory		
1	125	100
2	125	200
3	125	100
4	125	50
The tot no of fragmentation is:250		

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