S.No: 10

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

Date:

ID: 0201DCS281

Aim:

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

Source Code:

```
fixedPartitionTechnique.c
```

```
#include<stdio.h>
#include<conio.h>
void main()
{
   int i,mem_size,no_pro,no_par,mem_req[10],prn_size,fragmentation=0,temp;
   printf("Enter the memory size:");
   scanf("%d",&mem size);
   printf("Enter the no of partitions:");
   scanf("%d",&no_par);
   prn_size = mem_size/no_par;
   printf("Each partn size is:%d",prn_size);
   printf("Enter the no of processes:");
   scanf("%d",&no_pro);
   for(i=0;i<no_pro;i++)</pre>
      printf("Enter the memory req for process%d:",i+1);
      scanf("%d",&mem_req[i]);
      if(mem_req[i]<=prn_size)</pre>
      {
         printf("Process is allocated in partition%d\n",i+1);
         temp=prn size-mem req[i];
         printf("Internal fragmentation for process is:%d\n",temp);
         fragmentation+=temp;
      }
      else
      {
         printf("Process not allocated in partition%d\n",i+1);
         printf("External fragmentation for partition is:%d",prn size);
         fragmentation+=prn size;
      }
   }
   printf("Process\tmemory\tallocatedmemory\n");
   for(i=0;i<no_pro;i++)</pre>
   {
      if(mem_req[i]<100)
      printf("%5d\t%5d\t%5d\n",i+1,prn_size,mem_req[i]);
      printf("%5d\t%5d\t%5d\n",i+1,prn_size,mem_req[i]);
   printf("The tot no of fragmentation is:%d",fragmentation);
}
```

Execution Results - All test cases have succeeded!

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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: 10	
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	