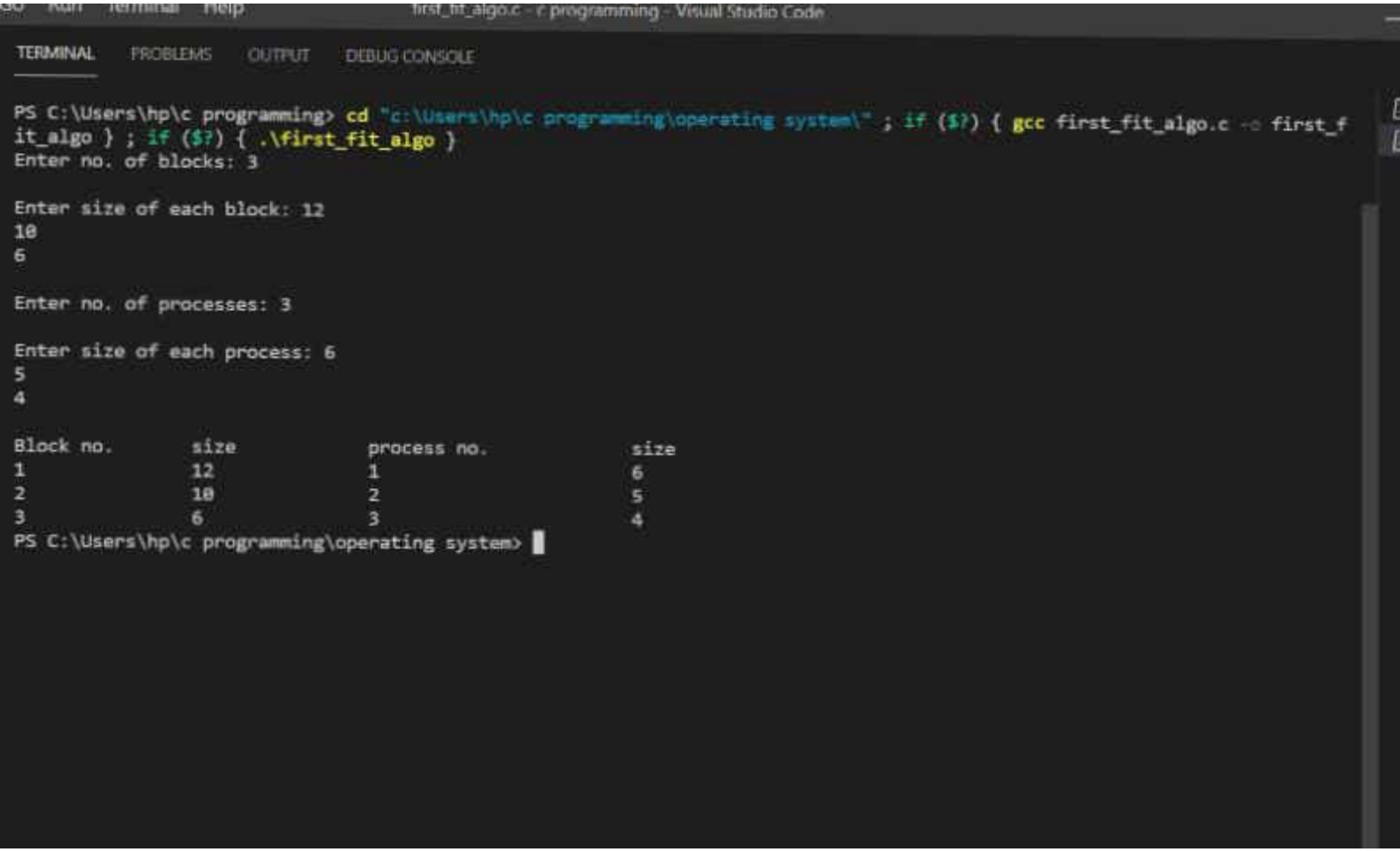
Mock Test

Date :- 25-08-2021
Course :- BSC IT
Name :- Kritika Rawat
Sec :- A
Univ Roll NO. :- 2023063

Q1. First fit algorithm.

```
#include <stdio.h>
void main()
{
int bsize[10], psize[10], bno, pno, flags[10],
allocation[10], i, j;
for(i=0; i<10; i++)
{
flags[i] = 0;
allocation[i] = -1;
}
printf("Enter no. of blocks:");
scanf("%d", &bno);
printf("\nEnter size of each block:");
for(i=0; i<bno; i++)
scanf("%d", &bsize[i]);
printf("\nEnter no. of processes:");
scanf("%d", &pno);
printf("\nEnter size of each process:");
for(i=0; i<pno; i++)
scanf("%d", &psize[i]);
for(i=0; i<pno; i++)
for(j=0; j<bno; j++)
```

```
if (flags[j] == 0 && bsize[j] >= psize[i])
{
allocation[j] = i;
flags[j] = i;
break;
}
printf("\n Block no:\tsize\t\tprocess no:\t\tsize");
for(i=0; i<bno; i++)
{
printf("\n%d\t\t%d\t\t", i+1, bsize[i]);
if(flags[i]==1)
printf("%d\t\t\t%d", allocation[i]+1, psize[allocation
                                                [i]]);
else
printf("Not allocated");
}
}
```


first_fit_algo.c - c programming - Visual Studio Code
TERMINAL
PROBLEMS
OUTPUT
DEBUG CONSOLE
PS C:\Users\hp\c programming> cd "c:\Users\hp\c programming\operating system\" ; if ($?) { gcc first_fit_algo.c -o first_fit_algo } ; if ($?) { .\first_fit_algo }
Enter no. of blocks: 3
Enter size of each block: 12
10
6
Enter no. of processes: 3
Enter size of each process: 6
5
4
Block no. size process no. size
1 12 1 6
2 10 2 5
3 6 3 4
PS C:\Users\hp\c programming\operating system>