

# LAB 4

Correct Code:

```

1 #include<stdio.h>
2 #include<conio.h>
3 int main ()
4 {
5     int temp,process[10][15], site_count=0, process_count=0,i,j,k,waiting[15];
6     int p1,p2,p3;
7     printf("\n Enter the no. of sites (max 3) \n");
8     scanf("%d",&site_count);
9     for(i=1;i<=site_count;i++)
10    {
11        printf("\n Enter the no. of processes in %d site ( max 4)\n",i);
12        scanf("%d",&process_count);
13        for(j=0;j<process_count;j++)
14        {
15            process[i][j]=i+(i*j);
16        }
17    }
18    printf("\n Enter the blocked process \n");
19    scanf("%d",&k);
20    for(i=1;i<=3;i++)
21    {
22        for(j=0;j<=3;j++)
23        {
24            if(k==process[i][j])
25            {
26                printf("Process %d is at site %d ",k,i);
27                temp=i;
28            }
29            if(k==process[i][j])
30                printf("It is a deadlock \n");
31            if(k==(process[temp][j])&&((process[temp][j])==waiting[process[i][j]]) && (temp!=i))
32            {
33                //probe(temp,j,process[i][j]);
34                if(process[i][j]==waiting[process[temp][j]]);
35                printf("It is a deadlock\n");
36            }
37        }
38    }getch();
39 }

```

Output:

```

Enter the no. of sites (max 3)
3

Enter the no. of processes in 1 site ( max 4)
3

Enter the no. of processes in 2 site ( max 4)
4

Enter the no. of processes in 3 site ( max 4)
3

Enter the blocked process
1
Process 1 is at site 1 It is a deadlock

...Program finished with exit code 0
Press ENTER to exit console.

```