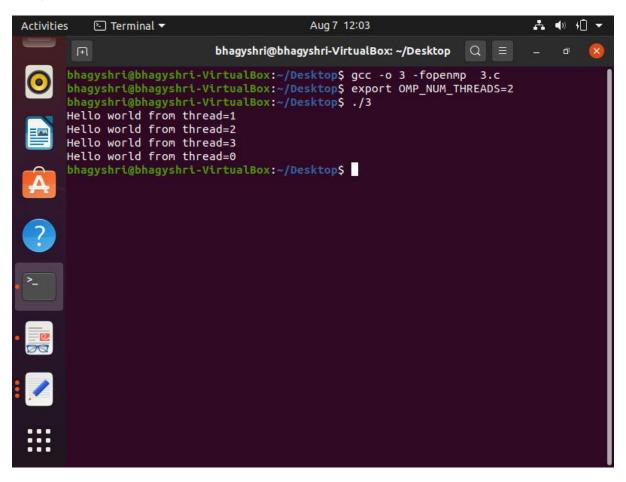
### Q1) OUTPUT

```
-pthread'
bhagyshri@bhagyshri-VirtualBox:~/Desktop$ gcc -o 1 -fopenmp 1.c
bhagyshri@bhagyshri-VirtualBox:~/Desktop$ export OMP_NUM_THREADS=2
bhagyshri@bhagyshri-VirtualBox:~/Desktop$ ./1
Hello world from thread=0
Number of threads=1
bhagyshri@bhagyshri-VirtualBox:~/Desktop$
```

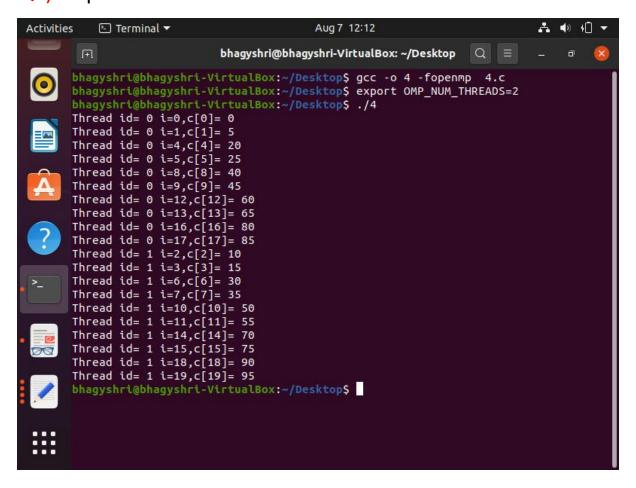
#### Q2)output

```
bhagyshri@bhagyshri-VirtualBox:~/Desktop$ gcc -o 2 -fopenmp 2.c
bhagyshri@bhagyshri-VirtualBox:~/Desktop$ export OMP_NUM_THREADS=2
bhagyshri@bhagyshri-VirtualBox:~/Desktop$ ./2
Enter 0: for serial 1: for parallel
0
bhagyshri@bhagyshri-VirtualBox:~/Desktop$ ./2
Enter 0: for serial 1: for parallel
1
Parallel val=1 id= 1
Parallel val=1 id= 0
bhagyshri@bhagyshri-VirtualBox:~/Desktop$
```

## Q3)OUTPUT



### Q4)output with chunk size=2 and Number of threads=2



# output with chunk size=3 and Number of threads=3

```
Activities

    Terminal ▼
                                                      Aug 7 12:13
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                                    bhagyshri@bhagyshri-VirtualBox: ~/Desktop
        Thread id= 1 i=11,c[11]= 55
        Thread id= 1 i=14,c[14]= 70
Thread id= 1 i=15,c[15]= 75
        Thread id= 1 i=18,c[18]= 90
        Thread id= 1 i=19,c[19]= 95
        bhagyshri@bhagyshri-VirtualBox:~/Desktop$ gcc -o 4 -fopenmp 4.c
bhagyshri@bhagyshri-VirtualBox:~/Desktop$ export OMP_NUM_THREADS=3
        bhagyshri@bhagyshri-VirtualBox:~/Desktop$ ./4
        Thread id= 1 i=3,c[3]= 15
        Thread id = 1 i = 4, c[4] = 20
        Thread id= 1 = 5,c[5] = 25
        Thread id= 1 i=12,c[12]= 60
Thread id= 1 i=13,c[13]= 65
        Thread id= 1 i=14,c[14]= 70
        Thread id= 0 i=0,c[0]= 0
        Thread id= 0 i=1,c[1]= 5
Thread id= 0 i=2,c[2]= 10
        Thread id= 0 i=9,c[9]= 45
        Thread id= 0 i=10,c[10]= 50
        Thread id= 0 i=11,c[11]= 55
        Thread id= 0 i=18,c[18]= 90
        Thread id= 0 i=19,c[19]= 95
        Thread id= 2 i=6,c[6]= 30
        Thread id= 2 i=7,c[7]= 35
        Thread id= 2 i=8,c[8]= 40
        Thread id= 2 i=15,c[15]= 75
        Thread id= 2 i=16,c[16]= 80
        Thread id= 2 i=17,c[17]= 85
bhagyshri@bhagyshri-VirtualBox:~/Desktop$
```