

OS Lab

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1.

```
koushik@koushik:~/Documents/code/nitr/os_lab/21092020$ ./a.out
Hello 38248
Hello 38247
```

2.

```
koushik@koushik:~/Documents/code/nitr/os_lab/21092020$ gcc 210920118CS0597Q2.c
koushik@koushik:~/Documents/code/nitr/os_lab/21092020$ ./a.out
Enter the number of processes to be created in chain
10
Enter the first number
5
Finally: 15
```

3.

```
koushik@koushik:~/Documents/code/nitr/os_lab/21092020$ gcc 210920118CS0597Q3_2.c
-o 210920118CS0597Q3_2
koushik@koushik:~/Documents/code/nitr/os_lab/21092020$ gcc 210920118CS0597Q3_1.c
koushik@koushik:~/Documents/code/nitr/os_lab/21092020$ ./a.out
Value of global_var is 10 and address is 0x558f10746010
Value of global_var is 20 and address is 0x56407c8cb010
Since both the addresses are different they cannot be sharing the same address space. If the address space were same then re definition of variable wouldn't be allowed or then the address of both should be same
```

4.

```
koushik@koushik:~/Documents/code/nitr/os_lab/21092020$ gcc 210920118CS0597Q4.c
koushik@koushik:~/Documents/code/nitr/os_lab/21092020$ ./a.out
9
```