

Distributed for the course "HPC Shiksha: Basics of High Performance Computing" Course Website: https://www.iitgoa.ac.in/hpcshiksha/

1. Installation Steps on Linux Systems

- **1.1 Install gcc compiler**: sudo apt-get install build-essentials
- **1.2 Install OpenMP library:** sudo apt-get install libomp-dev
- 2. Installation Steps on Windows Systems Windows not recommended

2.1 Installation Steps on Linux on Windows Systems

1. Virtualization software:

Virtualization software: Any free software such as VMware (<u>url</u>) Install linux in the virtual machine (<u>url</u>) Run commands in section 1.1 and 1.2

3. Installation Steps on Mac Systems: brew install llvm

```
/* Sample Program */
//Note: if done copy paste to text file, " " need to retyped.
#include<omp.h>
#include<stdio.h>
int main(){
    #pragma omp parallel for num_threads(5)
    for(int i=0;i<10;i++){
        printf("Hello World i=%d thread-id=%d\n", i, omp_get_thread_num());
    }
return 0;
}</pre>
```