## Assignment 3

DAXPY Loop

```
anushka_108@Ubuntu-VirtualBox:~/Parallel$ mpirun -np 5 ./daxpy

Serial Time: 0.000073 seconds

Parallel Time (using 5 processes): 0.003159 seconds

Speedup: 0.023257

anushka_108@Ubuntu-VirtualBox:~/Parallel$
```

2. Calculation of  $\pi$  - MPI Boast and MPI Reduce

```
anushka_108@Ubuntu-VirtualBox:~/Parallel$ mpicc pibcast.c -o pibcast
anushka_108@Ubuntu-VirtualBox:~/Parallel$ mpirun -np 4 ./pibcast
Approximate value of Pi: 3.141593
```

3. Use MPI\_Send to send a number to test.

```
anushka_108@Ubuntu-VirtualBox:~/Parallel$ mpirun -np 4 ./primesend
Prime: 2
Prime: 11
Prime: 17
Prime: 23
Prime: 29
Prime: 41
Prime: 47
Prime: 53
Prime: 59
Prime: 83
Prime: 89
Prime: 3
Prime: 7
Prime: 13
Prime: 19
Prime: 31
Prime: 37
Prime: 43
Prime: 61
Prime: 67
Prime: 73
Prime: 79
Prime: 97
Prime: 5
Prime: 71
```