Openmp –

Compile – gcc –o hello –fopenmp hello.c

Run - .\hello

Profiling – gcc –g –pg –o hello –fopenmp hello.c

Gprof – l hello >gprof.out

More gprof.out

MPI –

Build task

Compile – mpiexec –n 4 .\hello.exe

Cuda –

!nvcc -o out q1.cu

!nsys profile --stats=true out

\*prakx – openmp pyramid, mpi reduce to root, cuda matrix-vector multiply

Sid – openmp binary search, mpi gather to root, cuda matrix-scalor addition

Nisha - openmp first last private, mpi scatter gather, cuda fibbo

Tavishi – openmp matrix-vector multiply, mpi send, cuda factorial

Shivam – openmp gcd hcf, mpi gather to root

\*Janardhan- openmp binary search, mpi scatter gather, cuda matrix-scalor addition

Gawande - openmp palindrome, mpi scatter gather , cuda matrix-vector multiply

\*Parth- openmp matrix –matrix multiply , mpi send-recv , cuda fibbo

Suyash – openmp single ordered barrier, mpi send recv, cuda factorial

\*vidhan – openmp gcd hcf, mpi scatter gather, cuda vector vector multiply

\*Gourav – openmp matrix vector multiply, mpi send, cuda factorial

\*Shivsamarth – openmp fibbo, mpi broadcast

Darade Rohan – openmp binary search, mpi scatter gather, cuda matrix-scalor addition

int MPI\_Send(void \*data\_to\_send, int send\_count, MPI\_Datatype send\_type,

int destination\_ID, int tag, MPI\_Comm comm);

int MPI\_Recv(void \*received\_data, int receive\_count, MPI\_Datatype receive\_type,

int sender\_ID, int tag, MPI\_Comm comm, MPI\_Status \*status);

int MPI\_Bcast(void \*data\_to\_be\_sent, int send\_count, MPI\_Datatype send\_type,

int broadcasting\_process\_ID, MPI\_Comm comm);

int MPI\_Scatter(void \*send\_data, int send\_count, MPI\_Datatype send\_type,

void \*receive\_data, int receive\_count, MPI\_Datatype receive\_type,

int sending\_process\_ID, MPI\_Comm comm);

int MPI\_Reduce(void \*data\_to\_be\_sent, void \*result\_to\_be\_received\_by\_target,

int send\_count, MPI\_Datatype send\_type, MPI\_Op operation,

int target\_process\_ID, MPI\_Comm comm);

MPI\_Gather( void\* send\_data, int send\_count, MPI\_Datatype send\_datatype, void\* recv\_data, int recv\_count, MPI\_Datatype recv\_datatype, int root, MPI\_Comm communicator)