Parallel Programming: Assignment 2

Prepare a short tutorial on the language, define a problem statement, implement the problem using the given programming language and show the output. Be innovative to find well-defined problems that cover many aspects of parallelism. Presentations for this assignment will start during lecture hours from **11th-October**.

Instructions:

1) The presentation should include the following:

> i) Short introduction to the language, similar to a tutorial

> ii) Problem statement and solution

> iii) Implementation and output

2) Prepare a report on the topic. Report content should be like a tutorial document explaining the language and its capabilities

3) Each team member is expected to present during the presentation

4) The presentation should not exceed 15 minutes including demo of implementation and short tutorial

5) The report must be submitted immediately after the presentation

6) The file name of the report should follow the following format:

Report: Assignment2_report_group_GroupNo.PDF

Report Format:

1. Title section should include the following information:

> a. Title = Group-ID

> b. Authors = all member name and roll no

c. Affiliation = "Assignment topic"

2. Write about the programming language, problem statement, coding snippets and output.

3.The maximum length of the report is 4-5 pages.

Group Number and Topic:

Group Number	Topic
1	MPI
2	MPI
3	MPI
4	MPI
5	CUDA
6	CUDA
7	CUDA
8	CUDA
9	Pthreads
10	Pthreads
11	Pthreads
12	OpenCL
13	OpenCL
14	OpenCL
15	OpenCL
16	OpenCL
17	Pthreads