



**FACULTY OF COMPUTER SCIENCE AND ENGINEERING**  
**Ghulam Ishaq Khan Institute of Engineering Sciences and Technology, Topi**

**Lab Duration: 3 hrs.**

**CS417 Parallel Processing Lab (AI)**

**Marks: 20**

**Lab No: 01**

**Instructor: Mr. Usman Haider**

**Dated: 13/09/2023**

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**Before performing tasks, keep in mind the following rules:**

1. **CHEATING IS NOT ALLOWED.** Looking at someone else's screen is also cheating.
2. **Mobile phone and internet usage are not allowed.**
3. If you have any queries related to the task, you can ask instructors only. **Never talk to each other until you are allowed.**
4. Do not answer any query until you are asked.
5. Perform all the tasks.
6. Avoiding any of the above rules will lead to marks deduction.

**Task 1:**

Write C program to perform arithmetic operation on a given array. The array size and operator must be passed as CLI argument. The array should be created dynamically.

**Task 2:**

Write C program to add 2 matrices and give the difference of the resultant matrix. For example, given the matrices M and N, you are required to add these matrices. The input should be passed as CLI arguments, i.e., size of both matrices.