**COMSATS University Islamabad**

**Abbottabad campus**

**Lab-2 Part-1**

**Subject: Design Pattern**

**Class: BSE-7B**

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**Submitted to: Mukhtiar Zamin**

**Assignment Title: Lab2 part1 Singleton Pattern Lab Work**

**Link to GitHub Course repository:**

<https://github.com/Irfankhan761/Design-Pattern-Lab-Work>

**Link to GitHub Lab2 Part1 repository:**

https://github.com/Irfankhan761/Design-Pattern-Lab-Work/tree/main/LAB2%20Part1

**Description:**

This Design Pattern Lab Work focuses on implementing the Singleton Pattern, a creational design pattern, to ensure that a class has only one instance and provides a global point of access to that instance.

**In this lab work We learn:**

**Understand the Singleton Pattern:** Learn the concept and purpose of the Singleton Pattern in software design.

**Explore the GitHub Repository:** Visit the provided GitHub repository to access the lab materials, including code templates, requirements, and any additional resources.

**Implement the Singleton Pattern:** As I Write code to create a class that follows the Singleton Pattern guidelines. I ensure that the class has only one instance and provides a global point of access to that instance.

The Singleton Pattern is a fundamental design pattern frequently used in software development to control the instantiation of classes and ensure that there is only one instance throughout the application's lifecycle. This lab work provides valuable hands-on experience in applying this pattern to real-world scenarios.