### **Assignment** **6- Protocol in Swift**

**Lab Assignment: Working with Protocols in Swift**

This lab assignment will guide you through creating and using protocols in Swift. Follow the steps below to complete the assignment.

**Objectives:**

* Understand basic protocol syntax and usage.
* Create and conform to protocols.
* Use protocols to define properties and methods.
* Use protocol inheritance.

**Instructions:**

**Step 1: Basic Protocol Syntax and Usage**

* Define a simple protocol called Vehicle that has one requirements: a method describe().

**Step 2: Creating and Conforming to Protocols**

* Create another class Bicycle that conforms to the Vehicle protocol.

**Step 3: Using Protocols to Define Properties and Methods**

* Create a protocol Shape with a computed property area and a method displayArea.

**Step 4: Using Protocol Inheritance**

* Create a new protocol ColoredShape that inherits from Shape and adds a property color.