**Task1**

1. **The code violates Single Responsibility principle**

**SRP=>Each class should solve only one problem while the User class has multi responsibilities (SaveToDatabase() , GetUserList() , DoSomething()).**

**To fix these violations => by separating the code into different classes**

**SaveToDatabase () in class, GetUserList () in another class and DoSomething () in another class until separate data User in model class**

1. **The code violates Dependency Inversion principle**

**The User class has dependency on SqlConnection and Data user**

**To fix these violations => by separating SqlConnection into different classes, using interfaces to make it open for extension** **and** **using dependency injection to make it easier to test and maintain.**

1. **open and close connection => It is best to open the connection as late as possible before the execution statement cmd.ExecuteNonQuery();** in **SaveToDatabase () and SqlDataReader reader = command.ExecuteReader();** in

**GetUserList ().**

**Closing the connection puts it at the finally {}.**

## For clean code you should use Exception Handling Try {} catch () {} finally {}.