Observer Practical   **Due Date** **22 March 2024 before 23:55**

You have recently learnt about the observer pattern which defines a link between objects so that when one object's state changes, all dependent objects are updated automatically.

You are required to Console Application which simulates a network provider and users requiring the service. You are required to have a list of all the potential subscribers and a few network providers.

You are required to allocate colors to the different network providers, which identifies them. You application should allow for users to subscribe to a specific network and the users should have a colour specific to the network provider they are subscribed to.

Also, in cases where there are network faults and downtimes, the network providers should be able to send notifications to their subscribers.

You are also required to include a paragraph arguing why this scenario is suitable for an observer pattern. You are also required to include a class diagram suitable for the scenario. You network providers can be referred to as *Telnet, Vodahouse, Mnetwork, and CMac*.