**Assignment #01**

**Muhammad Hamad(12-f-12)(BEIT-V-A)**

9. What is the difference between Abstract Class & Interface?

* An interface differs from an abstract class because an interface is not a class. An interface is essentially a **type** that can be satisfied by any class that implements the interface.
* **An interface is an empty shell**, there are only the signatures (name / params / return type) of the methods. The methods do not contain anything. The interface can't do anything. It's just a pattern

10. Give 3 reasons why do we use Interface?

* Interfaces are good when you want to have something similar to multiple inheritance, since you can implement multiple interfaces.
* Interfaces are a good choice when you think that the API will not change for a while.
* Interfaces are also needed where you expect volatility in your program, points at which you anticipate change, points where your design needs to bend.