Assignmnet-3

Q1. Explain Dependency Injection and its types?
Ans:
  Dependency Injection is a technique where one object supplies the dependencies of nother object. Here dependency is a kind of service and injection is a client meaning something tells the client which service to use rather than client defining their own service or finding another one.
It involves 4 roles:
**service**: it is an object to be used
**client**: object depending upon the services
**interfaces**: defines how clients may use those services
**injector**: responsible for constructing the services and injecting them into the client.

Types of Dependency Injection are:

**Constructor Injection:**
  This method requires the client to provide a parameter in a constructor for the dependency.

**Setter Injection:**
  This method requires the client to provide a setter method for the dependency.

**Interface Injection:**
  This method is simply client publishing a role interface to the setter methods of the client's dependencies. It can be used to establish how the inector should talk to the client when injecting dependencies.

References
Dependency_ injection, Wikipedia