**Spring**

1. Spring works on 3 principles
   1. DI / IOC
   2. AOP
   3. Abstraction
2. Every class in spring Is called as a bean
3. Steps to create a spring Maven Project
   1. File -> new -> Other -> maven -> Maven Project
   2. Archetype : quickstart
   3. Group Id : package name
   4. Artifact Id : project name
   5. Update pom.xml file
      1. Java version : its different till jdk 8 and beyond jdk 9   
         Within <properties> tag
      2. Add dependencies
         1. Spring-context
         2. To add version at 1 place and use it using ${spring.version}  
            <properties>

<project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>

<java.version>11</java.version>

**<spring.version>5.3.23</spring.version>**

**</properties>**

1. Create a class => **follow the naming conventions : getters/ setters**
2. Create a xml file with the name  
   spring-core.xml [ filename can be anything ]
   * 1. Configure our beans using <bean>
     2. Id attribute => instance of the class
3. Load xml file
   * 1. In main method  
        ApplicationContext context = new

ClassPathXmlApplicationContext("spring-core.xml");

* + 1. The moment the xml file is loaded all the beans configured using <bean> tag are loaded and instantiated.

1. Dependency injecition
   1. Constructor
      1. XML : <constructor-arg>
      2. Annotation:
   2. Setter
      1. XML : <property>
      2. Annotation :
   3. Field injection : only via annotations