

NAME: CHRISFEL DOLAYINE AFANAM

ID: 615727

### LAB 3

1. What is Spring?  
Spring is a platform that allows developers to create decoupled applications easily.
2. What is Spring Boot?  
Spring Boot is a module under the Spring platform that makes Spring development easier by providing an auto-configured spring starter project.
3. What is the relation between Spring platform and Spring Boot?  
Spring Boot is an extension of the Spring platform that eliminates the need to perform manual configuration to run a spring project.
4. What is the relation between Spring platform and Spring framework?  
Spring framework is also an extension of the Spring platform that provides core support for dependency injection, transaction management, data access, inversion of control etc in java application development.
5. What is Dependency Injection and how is it done in the Spring platform/framework?  
In Spring, objects are modeled as components. These objects are created alone but they will need to communicate with each other to make the application work as a whole. Dependency Injection is the weaving of these components where required to ensure communication and access. Spring does this through the constructor, the field/property, or the setters.
6. What is Inversion of Control (IoC) and how is it related to Spring?  
Inversion of Control is a principle that allows the framework to have control over the objects in a program. Spring gives the control of creating and instantiating beans to the IoC container. Spring achieves IoC through dependency injection.