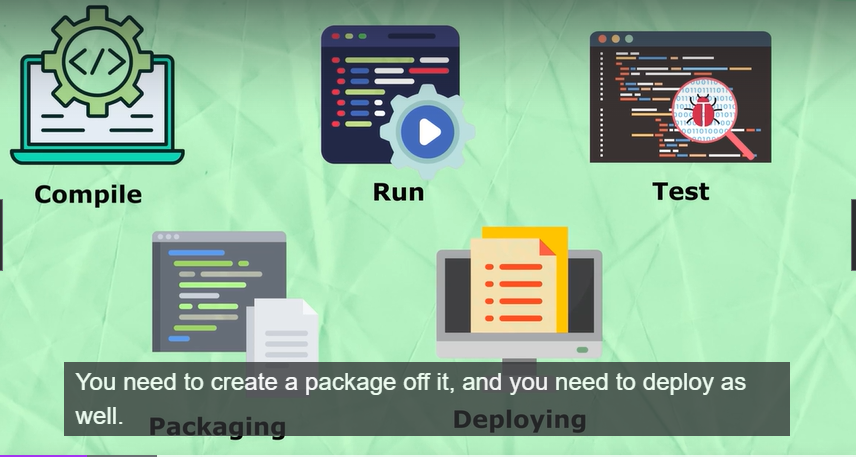
Maven:

* It is a product management tool.



POM – Project Object Model

Maven lifecycle:  
- when we click on clean it will delete all the files

* Package it will install new files

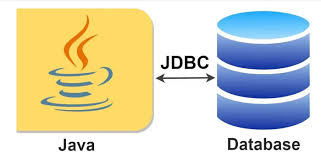
All the dependencies that you need will be present in the maven repository (https://mvnrepository.com/)  
  
all the dependencies should be placed inside the dependencies tag in POM.xml

Maven Archetype:

* It’s a template for your POM file

JDBC (Java Database Connectivity)  
- it is a part of JDK

* It gives you an API to connect with the database



Steps (JDBC Steps):

1. Import packages
2. Load driver
3. Register driver
4. Create connection
5. Create statement
6. Execute statement
7. Close connection

To get the driver for postgres jdbc just to a search postgres jdbc driver

Or you can also use maven repository

After downloading it we must add the jar file in the library section of project structure under files in the IDE

Spring:

* Spring boot works on spring framework

What is spring framework:

* We can consider spring to be an ecosystem
* It is used to develop enterprise application

IoC – (Inversion of Control)

* Simply does mean we are inverting the control
* As a programmer our focus should be on the business logic and not the object creation
* So we’re inverting the control of object creation and the flow to spring
* In spring this is called IoC Container.
* So now the object creation is handled by the IoC and the objects are present in the IoC Container
* Someone has to inject those object into the application
* This is the place were the Dependency Injection (DI) comes into the action

Spring boot is built on top of spring

Configuring a project through spring is a very tedious task

Therefore, the existence of spring boot framework came into picture.

Start.spring.io – spring initializer

Beans;  
- any object created by spring is called beans

Wiring:

Autowiring helps in DI when the class doesn’t have the ApplicationContext

Exploring Spring:

* While creating a new project go for quick start in archetype since it gives you the basic structure
* Beans are objects that are managed by spring framework

While creating the xml file (spring101)

* The bean tag should have the id that we can use later to refer to that bean
* The class that we use should contain the full patch ie. It should also include the package
* For bean configuration don’t by heart it, you can always refer to the documentation by googling spring bean configuration