

MAVEN

Maven is a project management tool
Maven is convention over configuration

Why Maven?

- common interface
- Dependencies

<dependency>

<artifactId> junit-jar -

</dependency>

- Repositories
- Reuse (plugin model)

① which of the folder will have the test classes in a maven java project

→ src / test / java

② the maven folder structure is ~~not~~ the same for standalone java proj or java web applic

③ Along with build management maven also provides ~~which of~~

→ Dependency Management

java -cp

parameters

plugin : goalId

mvn archetype : generate -DgroupId=com.blorist -DartifactId=hellomaven -

-DarchetypeArtifactId=maven-archetype-quickstart -DinteractiveMode=false

- ❖ ④ what represents the type of maven project we want to create
 - archetypeArtifactId
- ❖ ⑤ which maven goal can be used to create a maven project from the command line?
 - archetype:generate
- ❖ ⑥ which is not a maven coordinate element in pom.xml?
 - dependency
- ❖ ⑦ which maven plugin do we use when we create a maven project.
 - archetype
- ❖ ⑧ maven runs all the life cycle phases before the phase that is being executed.
- ❖ ⑨ The local maven 'repository' folder on your machine is located under which folder under your user directory?
 - .m2
- ❖ ⑩ The name of the final project artifact like jar or war is derived from which of the following in pom.xml
 - projectCoordinates
- ❖ ⑪ the folder structure in which maven places the jars or wars in a repository is derived from the project artifact → false

MVN install -DskipTests

to pass any parameters to maven goals

(12) The java version for a project can be configured through which of section in pom.xml?

→ Build

(13) which parameter should be used to skip tests from the command line?

→ -DskipTests

(14) Maven can download the dependencies transitively

→ True

(15) which of is not the child element of a maven-dependency element.

→ dependencies

(16) which of following scope can be used to tell maven that we do not need a dependency to be packaged into a war that will be deployed to a container which will already have the jar / dependency

→ provided

(17) what is the archetype to create a maven java web project.

→ maven-archetype-webapp

(18) The packaging type of a maven web application is

→ war

(19) In a multi module project the packaging in the parent project pom will be.

→ pom

(20) Which element in the child modules pom.xml do we refer to the parent pom?

→ parent

(21) If we build the parent project in a multi module setup Maven will build all the child projects/modules? - True.

(22) What is the xml element inside parent pom.xml which we define all the child modules

→ modules

The six scopes

compile runtime provided test system import

(23) This scope indicates the dependency is not required for compilation, but is for execution

→ runtime

(24) The test scope dependency is only available for test compilation & execution phases ✓

(25) When we use which scope we provide a path to the dependency on that machine instead of pulling it from a repository

→ system

Spring Boot Features

Auto
configuratiⁿ

Spring
boot
starts

Embedded
server
container

Spring Boot
Actuators

(26) When we use traditional spring approach everything is **not** automatically configured for us & the version of the dependencies are taken care of

(27) Which feature of spring boot uses pom.xml
→ spring starters

(28) Which starters is added as dependency to the pom.xml when we create a simple Spring Boot project

→ spring-boot-starter

(29) Where does the version info for the dependencies in a spring ~~comes~~ boot projects pom.xml comes from

→ spring-boot-starter-parent

(30) The @SpringBootApplication annotation encapsulates which annotations

→ @ComponentScan, @SpringBootConfiguration,

@EnableAutoConfiguration,

(31) Which annotation is used to mark a test class in spring boot application

→ @SpringBootTest