04.30Mar. Environment Variables, Configurations & MVN(Compile, Package)

30 March 2023   07:26 PM

Variable
> Which store value(Number, Address- PATH, Name)

Environment Variables:
   1) System Level
   2) User Level(Current User)
   3) Session Level (Command Prompt)

List All users: net user

Check Current Computer\User names: whoami
ComputerName\UserName

Check System(Any) working:
$ ping NameOfComputer
$ ping IP-Address

$ whoami
nel004\info
$ ping nel004

$ ipconfig

Wireless Network Adapter:
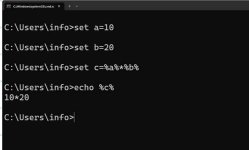
IPv4:	192.168.X.X

$ ping 192.168.0.101

$ ping 127.0.0.1

$ ping localhost

Session Level (Command Prompt) Environment Variable

1. Open Command Prompt
   a. Window + R --> cmd
   b. Search box --> cmd
2. Store value 10 in Session Level EV a:
   a. $ set a=10
3. To Display Session Level EV a value:
   a. $ echo %a%

```
C:\Users\info>set a=10

C:\Users\info>set b=20

C:\Users\info>set c=%a%*%b%

C:\Users\info>echo %c%
10*20

C:\Users\info>
```

2. User Level(Current User)

➢ Only Available to Current User

1. Goto System(My Computer/This PC) Property
   a. System --> Right Click --> Select Property
   b. Windows+ Pause Break
2. Advanced System Settings --> Environment Variable --> User Environment Variable

Java Application
➢ Java (JDK, JRE)
➢ Editor (VSCode)
➢ Enterprise Application:
   ○ JAR(Java Archive= Compress) File ==> java
   ○ WAR(Web Archive) ==> Tomcat(Web Server)

1) Java Simple File
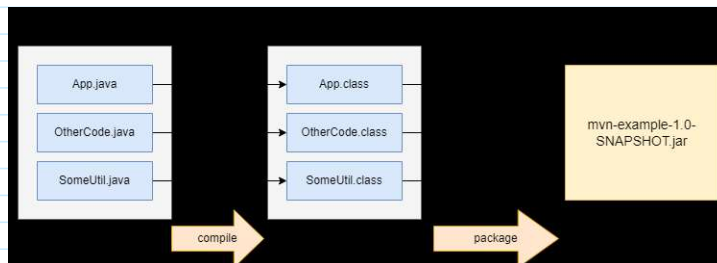Abc.java --> Compile(**javac** Abc.java) --> Got (Abc.class) --> Run (java Abc)

2) Java Multiple Files
*.java --> Build Tool (**Maven**) --> Got (*.class) --> Run (java MainClass/DriverClass)

3) Generate Archive File
*.java --> Build Tool (**Maven=Build, Test, Dependencies, Package**) --> Got (*.class) --> **Package** (JAR/WAR) --> Run(java -jar OR **Tomcat** App1.jar/App1.war)

Packaging Location: target Folder

$ mvn -v

$ mvn compile # Generate .class files into target\classes

$ cd target\classes

$ java ClassName (# ClassName = com.nubeera.App)

$ mvn package   # Generate jar(package file) target\PROJECT-NAME.jar

$ java -jar target/javaHelloWorld.jar

$ mvn clean   # Delete Output/Generated Files