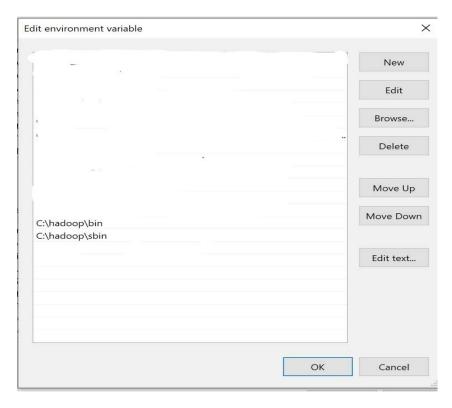
Running Map Reduce Program in Eclipse – Windows

- 1. Down load and setup Apache Hadoop. Download tar.gz file for Hadoop ver 3.2.1 from link: https://hadoop.apache.org/release/3.2.1.html
- 2. Extract tar file at an appropriate location on your system. Say C:\hadoop
- 3. Add the location of the Hadoop directory to your system environment variables as HADOOP_HOME. Eg. if you have extracted Hadoop at C:/hadoop then add HADOOP HOME=C:/hadoop as a system environment variable.



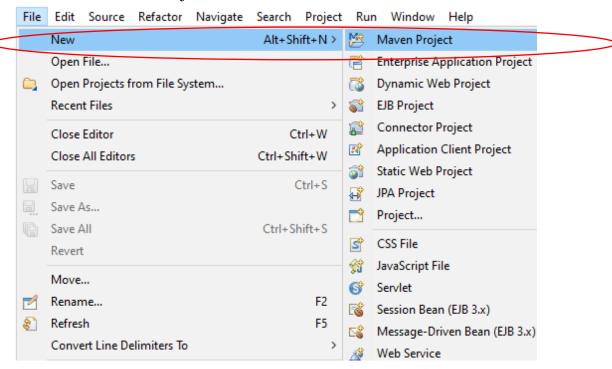
4. Add Hadoop bin to your system path variable. For Eg if Hadoop is present at C:/hadoop, add C:/hadoop/bin to the system path.



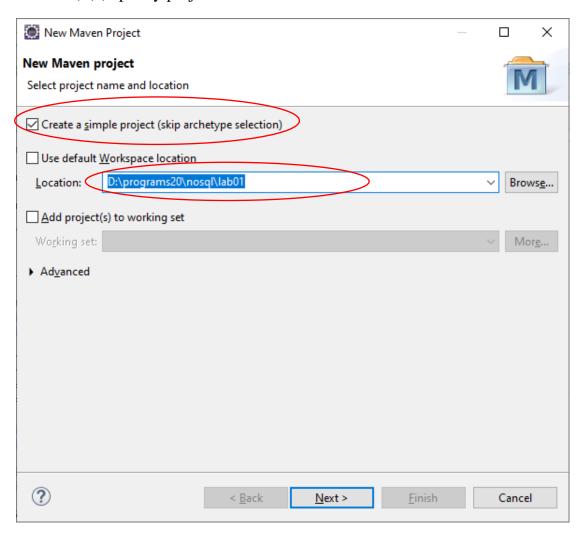
5. Download winutil binary files from link below Put them all in hadoop/bin folder if they are already not present in it.

https://github.com/cdarlint/winutils/tree/master/hadoop-3.2.1/bin

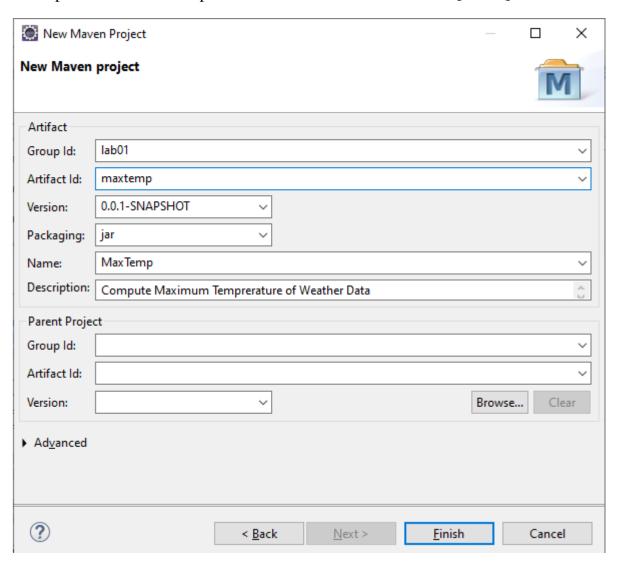
- 6. Download Eclipse IDE from https://www.eclipse.org/downloads/packages/release/2020-12/r/eclipse-ide-java-developers
- 7. Extract files and place in appropriate folder.
- 8. Run Eclipse.
- 9. Create a new Maven Project



10. Provide Project Details: Inputs (1) Choose Create a simple project (skip archetype selection) (2) specify project location and click <next>



11. Provide Maven Project Details: Inputs (1) Group Id (2) Artifact Id (3) Name (4) Description. Leave other inputs blank or default value and click [Finish]



12. Add Hadoop dependencies to the project. Open pom.xml, it should like following

Add following dependencies in pom.xml (immediately above </project> tag.

Save the pom.xml file. It should start some downloads.

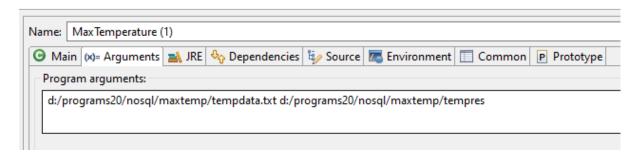
- 13. Create package "lab01.maxtemp"
- 14. Add given three source files in this package
- 15. Change the name of the package at the top of all the three files from "pmj.mapr.maxtemp" to "lab01.maxtemp"
- 16. Create a directory a input data directory and put given data file in this.

17. Specify program parameters: Right click on "MaxTemperature.java". Select properties. "Select Run/Debug settings". Select this file. Add parameters.

Edit Configuration

Edit launch configuration properties

Run a Java application



18. Run: Right click on "MaxTemperature.java". Choose "Run As" → "Java Application"