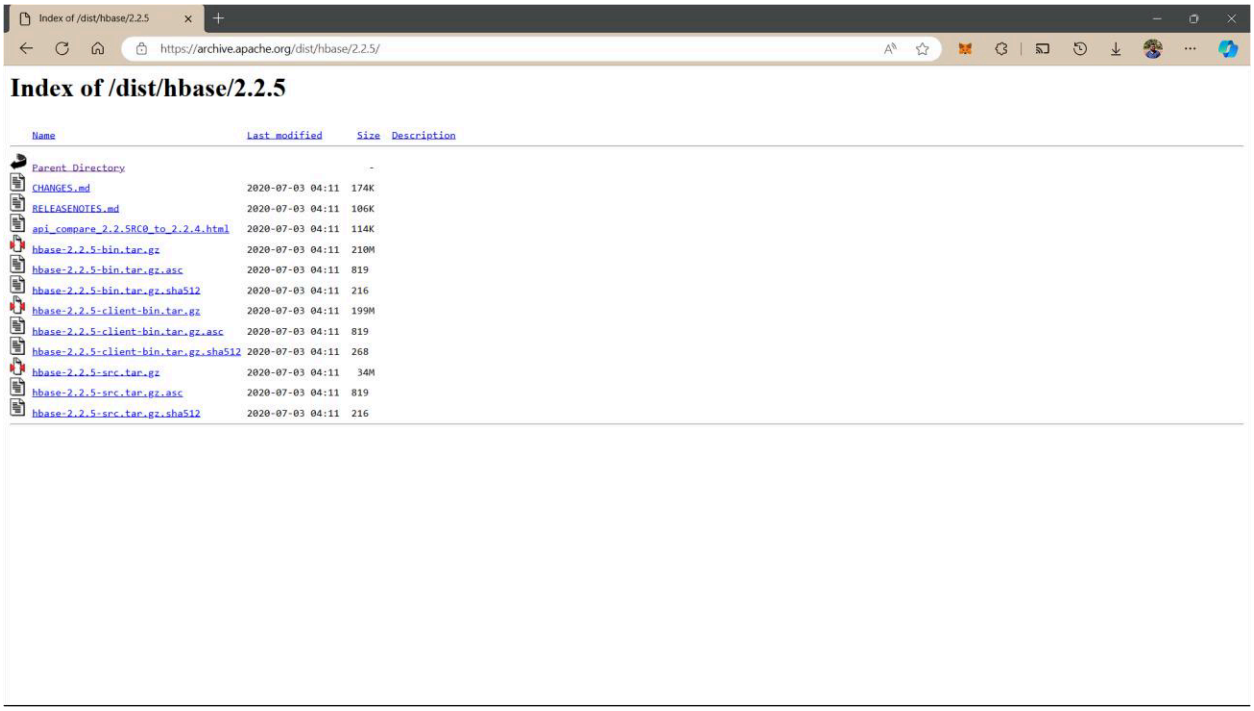
Practical 5:

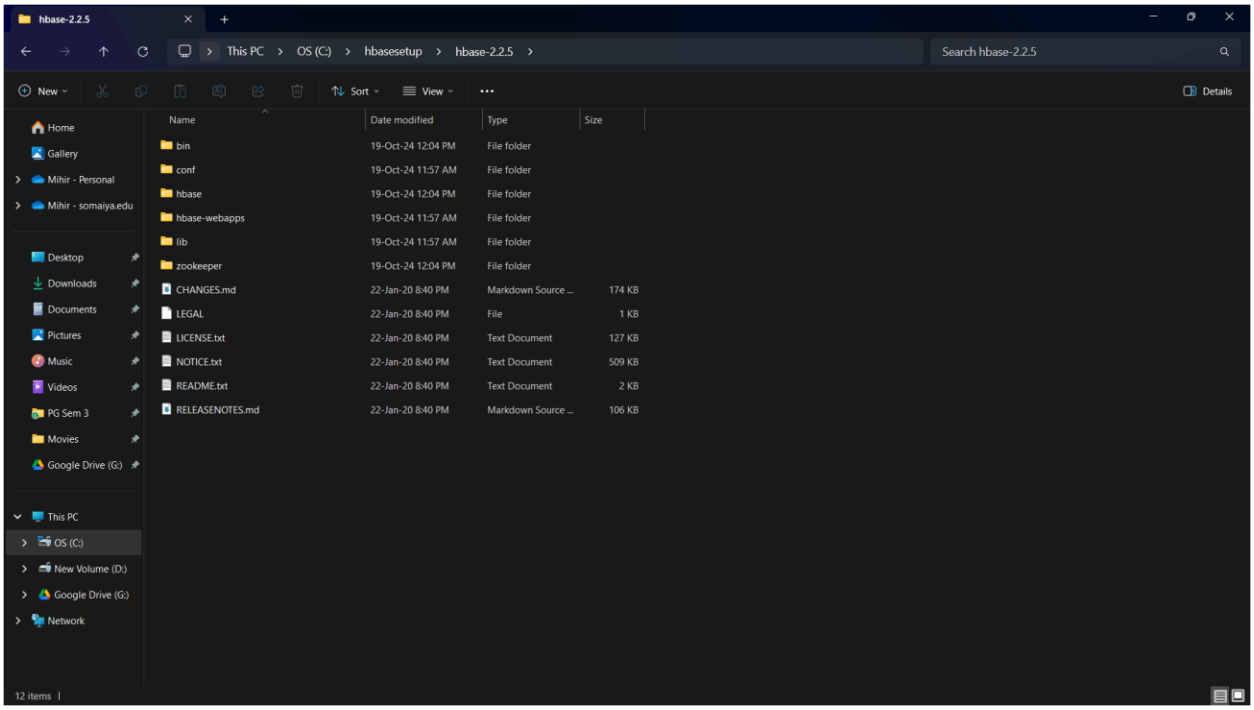
Aim: Download and installation of HBase

Steps:

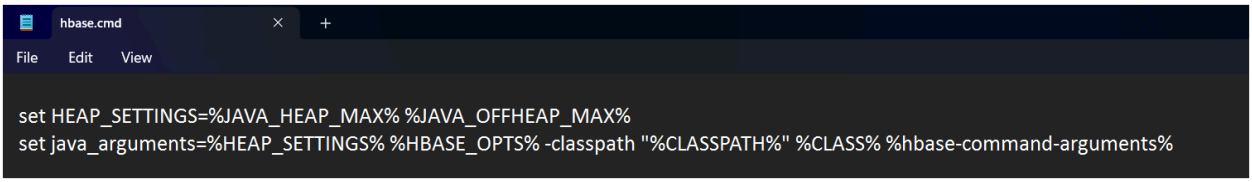
1- Download HBase bin file from here.

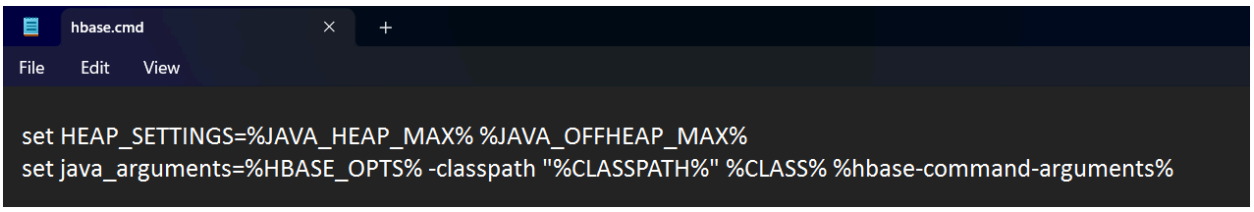


2- Create a new folder in C drive named hbasesetup. Extract the files and paste it in the hbasesetup. Create 2 new folders hbase and zookeeper inside.



3-Open the bin folder. Search for the file hbase.cmd and edit it in notepad. Search for java_arguments and remove %HEAP_SETTINGS%.

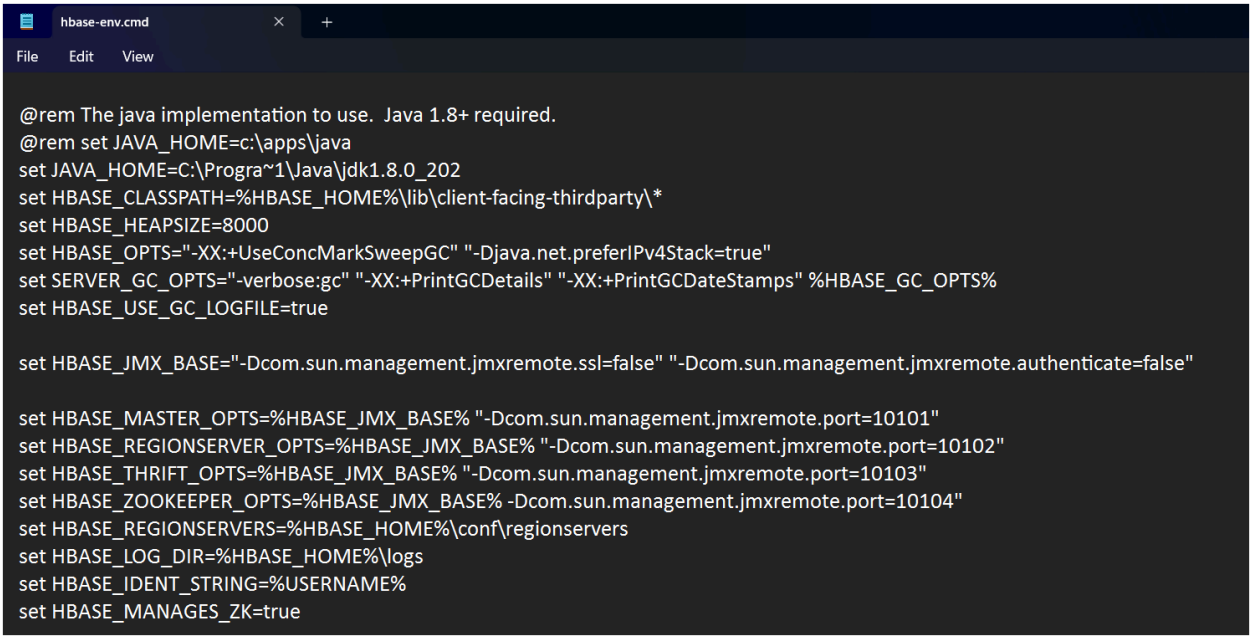




4-Open the conf folder and edit the file hbase-env.cmd in notepad. Add the following lines inside.

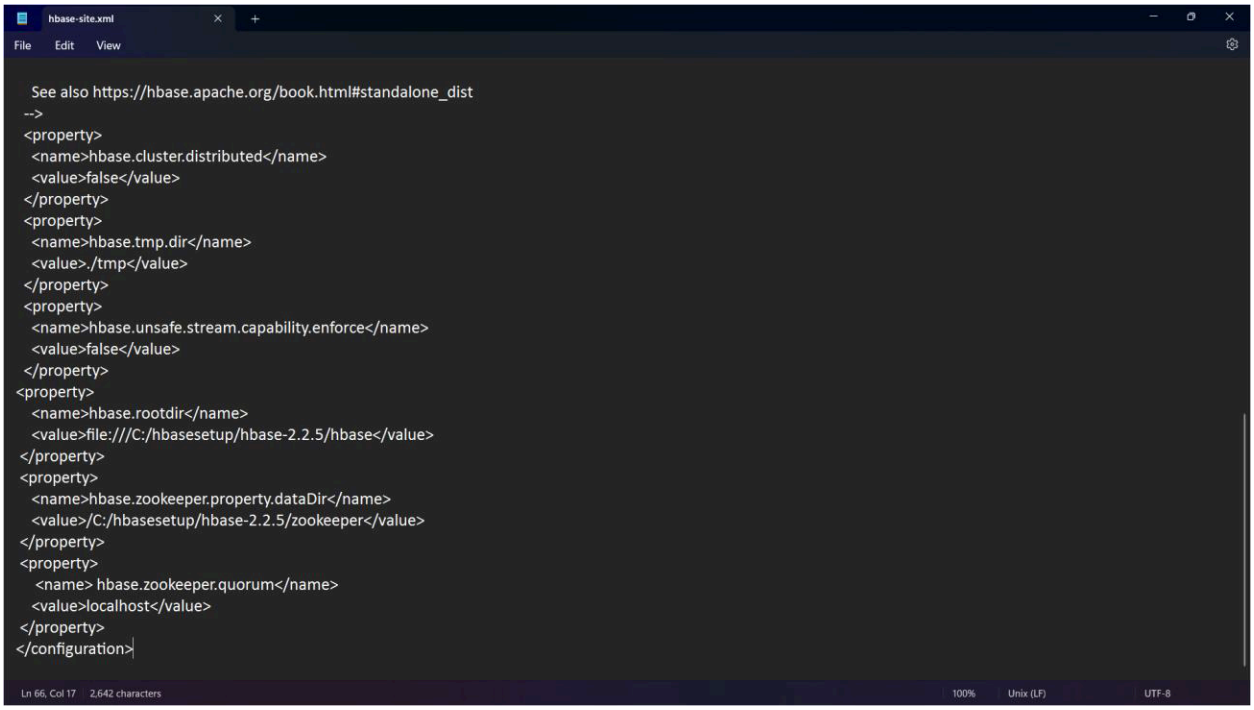
```
set JAVA_HOME=C:\Progra~1\Java\jdk1.8.0_202
set HBASE_CLASSPATH=%HBASE_HOME%\lib\client-facing-thirdparty\*
set HBASE_HEAPSIZE=8000
set HBASE_OPTS="-XX:+UseConcMarkSweepGC" "-Djava.net.preferIPv4Stack=true"
set SERVER_GC_OPTS="-verbose:gc" "-XX:+PrintGCDetails" "-XX:+PrintGCDateStamps"
%HBASE_GC_OPTS%
set HBASE_USE_GC_LOGFILE=true
```

set HBASE_JMX_BASE="-Dcom.sun.management.jmxremote.ssl=false"
"-Dcom.sun.management.jmxremote.authenticate=false"
set HBASE_MASTER_OPTS=%HBASE_JMX_BASE% "-Dcom.sun.management.jmxremote.port=10101"
set HBASE_REGIONSERVER_OPTS=%HBASE_JMX_BASE%
"-Dcom.sun.management.jmxremote.port=10102"
set HBASE_THRIFT_OPTS=%HBASE_JMX_BASE% "-Dcom.sun.management.jmxremote.port=10103"
set HBASE_ZOOKEEPER_OPTS=%HBASE_JMX_BASE%
-Dcom.sun.management.jmxremote.port=10104"
set HBASE_REGIONSERVERS=%HBASE_HOME%\conf\regionservers
set HBASE_LOG_DIR=%HBASE_HOME%\logs
set HBASE_IDENT_STRING=%USERNAME%
set HBASE_MANAGES_ZK=true

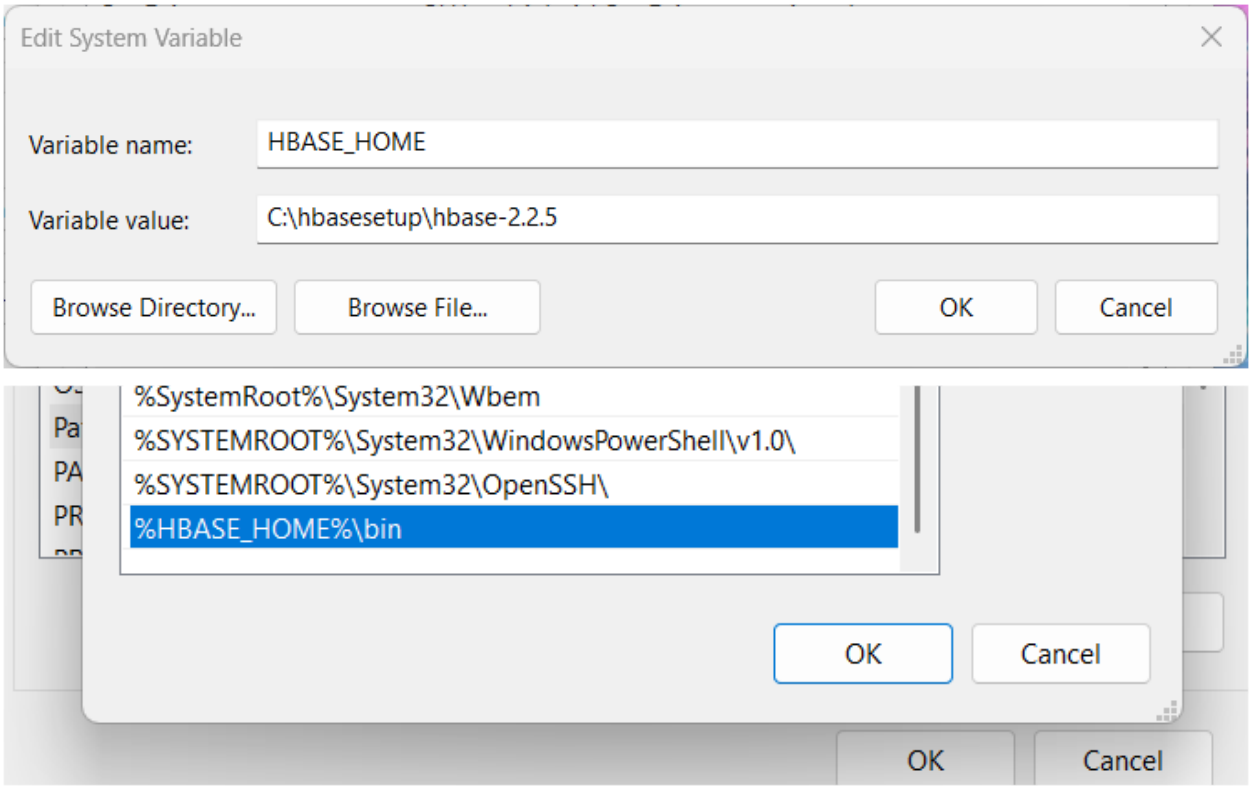


5-Open the conf folder and edit the file hbase-site.xml in notepad. Add the following lines after the last property tag.

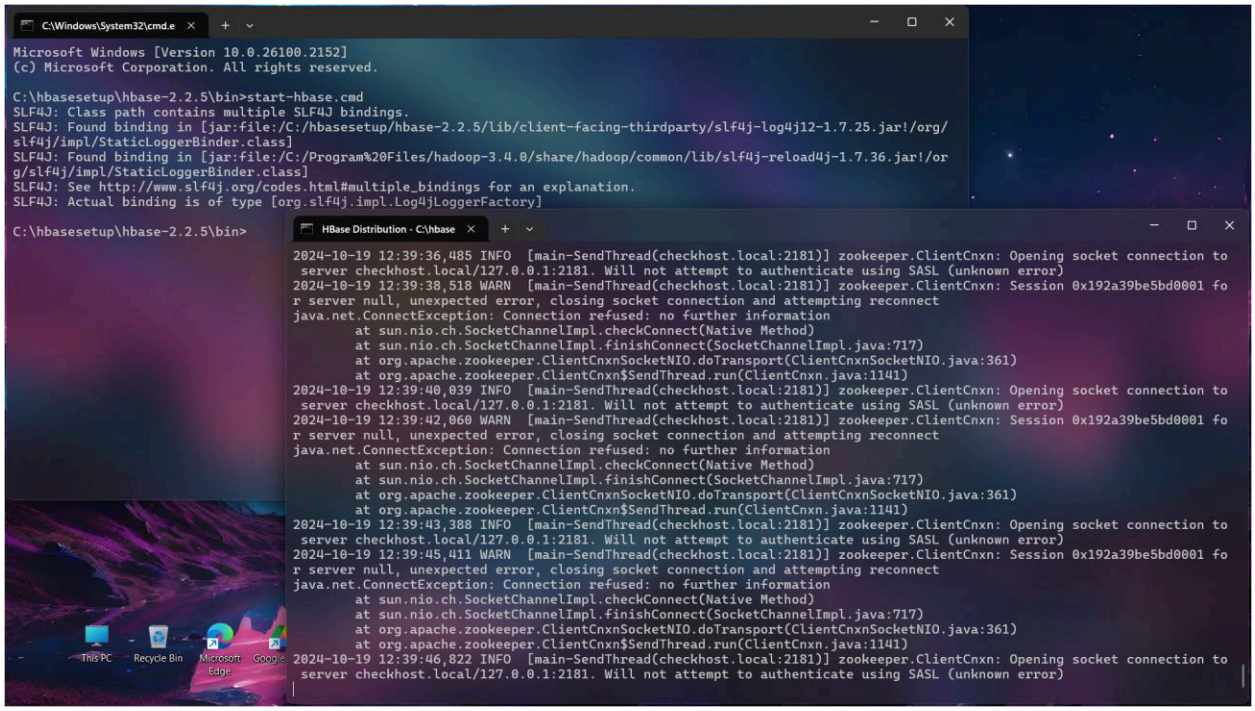
<property>
<name>hbase.rootdir</name>
<value>file:///C:/hbasesetup/hbase-2.2.5/hbase</value>
</property>
<property>
<name>hbase.zookeeper.property.dataDir</name>
<value>/C:/hbasesetup/hbase-2.2.5/zookeeper</value>
</property>
<property>
<name> hbase.zookeeper.quorum</name>
<value>localhost</value>
</property>



6-Set the HBase environment variables and it too path as well.

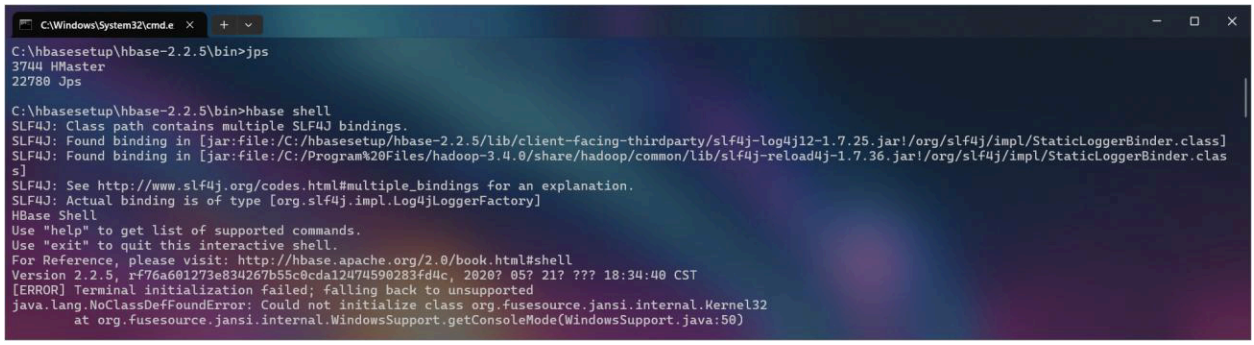


7-Open command prompt and navigate to the hbase bin folder. Run the command start-hbase.cmd to start hbase

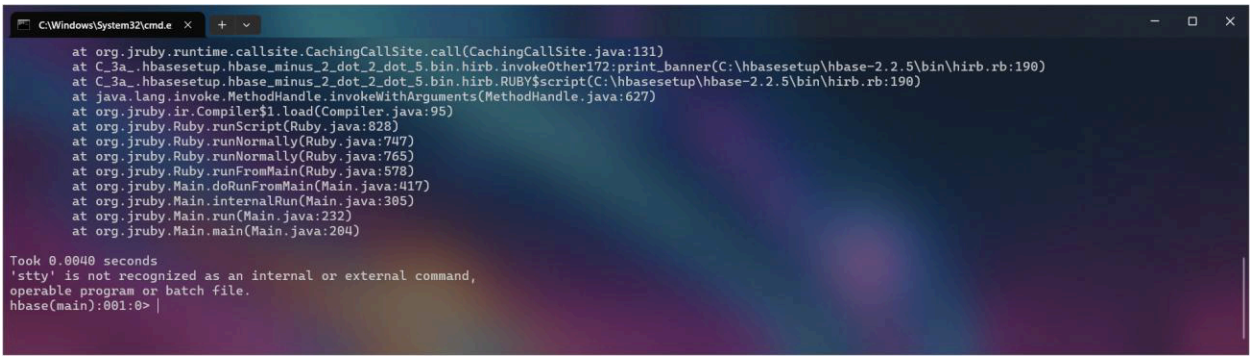


8-Using the command jps you can check that our HMaster is running.

9-Start the HBase Shell now with the command hbase shell. Initial startup may take some time.



10-Your HBase Shell has been started. Ignore the warnings received while starting the shell.


C:\Windows\System32\cmd.e
at org.jruby.runtime.callsite.CachingCallSite.call(CachingCallSite.java:131)
at C_3a_.hbasesetup.hbase_minus_2_dot_2_dot_5.bin.hirb.invokeOther172:print_banner(C:\hbasesetup\hbase-2.2.5\bin\hirb.rb:190)
at C_3a_.hbasesetup.hbase_minus_2_dot_2_dot_5.bin.hirb.RUBY$script(C:\hbasesetup\hbase-2.2.5\bin\hirb.rb:190)
at java.lang.invoke.MethodHandle.invokeWithArguments(MethodHandle.java:627)
at org.jruby.ir.Compiler$1.load(Compiler.java:95)
at org.jruby.Ruby.runScript(Ruby.java:828)
at org.jruby.Ruby.runNormally(Ruby.java:747)
at org.jruby.Ruby.runNormally(Ruby.java:765)
at org.jruby.Ruby.runFromMain(Ruby.java:578)
at org.jruby.Main.doRunFromMain(Main.java:417)
at org.jruby.Main.internalRun(Main.java:305)
at org.jruby.Main.run(Main.java:232)
at org.jruby.Main.main(Main.java:204)
Took 0.0040 seconds
'stty' is not recognized as an internal or external command,
operable program or batch file.
hbase(main):001:0>