Homework 1:

Question 1: Screenshots

Part A – My OS environment is an Ubuntu distribution in wsl.

Part B – My output of the java –version

Part C – Output of the Hadoop version command

Part D - Various snips of my files

File contents of my Path Variables in .profile

```
GNU nano 6.2
                                                                                             /home/eric/.profile
  ~/.profile: executed by the command interpreter for login shells. This file is not read by bash(1), if ~/.bash_profile or ~/.bash_login
 see /usr/share/doc/bash/examples/startup-files for examples. the files are located in the bash-doc package.
 the default umask is set in /etc/profile; for setting the umask for ssh logins, install and configure the libpam-umask package.
umask 022
 -d "$HOME/bin" ] ; the
PATH="$HOME/bin:$PATH"
  set PATH so it includes user's private bin if it exists [ -d "$HOME/.local/bin" ] ; then PATH="$HOME/.local/bin:$PATH"
         JAVA_HOME=/usr/lib/java
  port JRE_HOME=$JAVA_HOME/jre
port CLASSPATH=$CLASSPATH:.:$JAVA_HOME/lib:$JRE_HOME/lib
port PATH=$JAVA_HOME/bin:$JRE_HOME/bin:$PATH
port PATH=$JAVA_HOME/bin:$JRE_HOME/bin:$PATH
                                                                                                                                                                                     M-A Set Mark
M-6 Copy
                        ^O Write Out
                                                                                                                                 ^C Location
^/ Go To Li
   Help
Exit
                                                   ^W Where Is
^\ Replace
                                                                             ^K Cut
^U Paste
                             Read File
                                                                                                            Justify
                                                                                                                                     Go To Line
```

Snip of Core-site.xml

```
GNU nano 6.2
                                                                                                            core-site.xml
?xml version="1.0" encoding="UTF-8"?>
?xml-stylesheet type="text/xsl" href="configuration.xsl"?>
  Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at
     http://www.apache.org/licenses/LICENSE-2.0
 Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License. See accompanying LICENSE file.
 !-- Put site-specific property overrides in this file. -->
                           <name>fs.defaultFS</name>
                          <value>hdfs://localhost:9000</value>
                                                                                                     [ Read 24 lines ]
                                                                                     ^K Cut
^U Paste
   Help
Exit
                                Write Out
Read File
                                                        ^W Where Is
^\ Replace
                                                                                                                     Execute
                                                                                                                                               ^C Location
^/ Go To Line
                                                                                                                                                                            M-U Undo
M-E Redo
                                                                                                                                                                                                               Set Mark
```

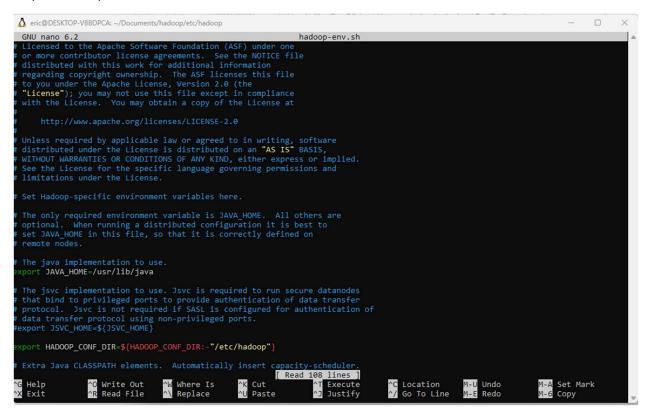
Snip of hdfs-site.xml

```
∆ eric@DESKTOP-VBBDPCA: ~/Documents/hadoop/etc/hadoop

GNU nano 6.2
                                                                                                            hdfs-site.xml
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     http://www.apache.org/licenses/LICENSE-2.0
 Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License. See accompanying LICENSE file.
                         <name>dfs.replication</name>
                          <name>dfs.namenode.name.dir</name>
<value>/home/eric/Documents/hadoop hdfs data/name</value>

// onme / eric / Documents / hadoop _ hdfs _ data / data < / value >
                         <name>dfs.namenode.checkpoint.dir</name>
                          <value>/home/eric/Documents/hadoop_hdfs_data/namesecondary</value>
                                                       ^W Where Is
^\ Replace
                           ^O Write Out
^R Read File
                                                                                                                                              ^C Location
^/ Go To Lir
                                                                                                                                                                                                        M-A Set Mark
                                                                                     ^K Cut
^U Paste
   Exit
                                                                                                                       Justify
                                                                                                                                                   Go To Line
                                                                                                                                                                                                               Copy
```

Snip of Hadoop-env



Part E – The output of jps command

```
A circ@DESKTOP-VBBDPCA:-/Documents/hadoop/etc/hadoop
eric@DESKTOP-VBBDPCA:-/Documents/hadoop/etc/hadoop$ jps
11602 NodeManager
86042 pps
11150 SecondaryNameNode
11932 DataNode
11308 ResourceManager
10845 NameNode
36319 org.eclipse.equinox.launcher_1.6.500.v20230717-2134.jar
eric@DESKTOP-VBBDPCA:-/Documents/hadoop/etc/hadoop$
```

Part F – Snip of the Web Interface

Overview 'localhost:9000' (active)

Started:	Wed Sep 13 13:25:38 -0500 2023
Version:	2.8.1, r20fe5304904fc2f5a18053c389e43cd26f7a70fe
Compiled:	Fri Jun 02 01:14:00 -0500 2017 by vinodkv from branch-2.8.1-private
Cluster ID:	CID-e9955f1d-e62e-4b4a-9f26-b88cc8a9de89
Block Pool ID:	BP-717907232-127.0.1.1-1694629513343

Summary

Security is off.

Safemode is off.

6 files and directories, 2 blocks = 8 total filesystem object(s).

Heap Memory used 72.31 MB of 307 MB Heap Memory. Max Heap Memory is 889 MB.

 $Non\ Heap\ Memory\ used\ 50.83\ MB\ of\ 51.97\ MB\ Committed\ Non\ Heap\ Memory.\ Max\ Non\ Heap\ Memory\ is\ < unbounded >.$

Configured Capacity:	1006.85 GB
DFS Used:	8.48 MB (0%)
Non DFS Used:	5.38 GB
DFS Remaining:	950.25 GB (94.38%)
Block Pool Used:	8.48 MB (0%)
DataNodes usages% (Min/Median/Max/stdDev):	0.00% / 0.00% / 0.00% / 0.00%
Live Nodes	1 (Decommissioned: 0)

Part G – Screenshot of "hdfs dfs -ls -R /"

Eric Shields

```
      A eric@DESKTOP-VBBDPCA:-/Documents/hadoop/etc/hadoop$
      A eric@DESKTOP-VBBDPCA:-/Documents/hadoop/etc/hadoop$

      A eric@DESKTOP-VBBDPCA:-/Documents/hadoop/etc/hadoop$
      4 675 - 15 - R / drw.rx-rx - eric supergroup
      6 2023-69-13 21:16 / user/eric drw.rx-rx - eric supergroup
      6 2023-69-13 21:29 / user/eric drw.rx-rx - eric supergroup
      6 2023-69-13 21:20 / user/eric / input / inp
```