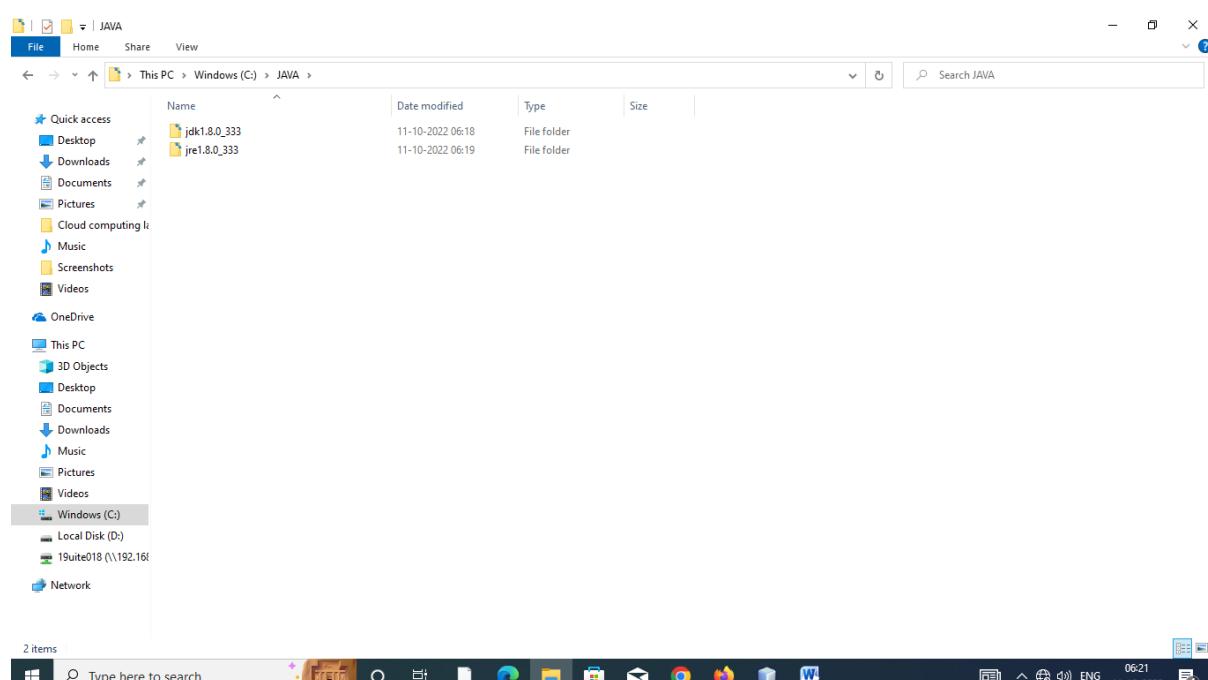
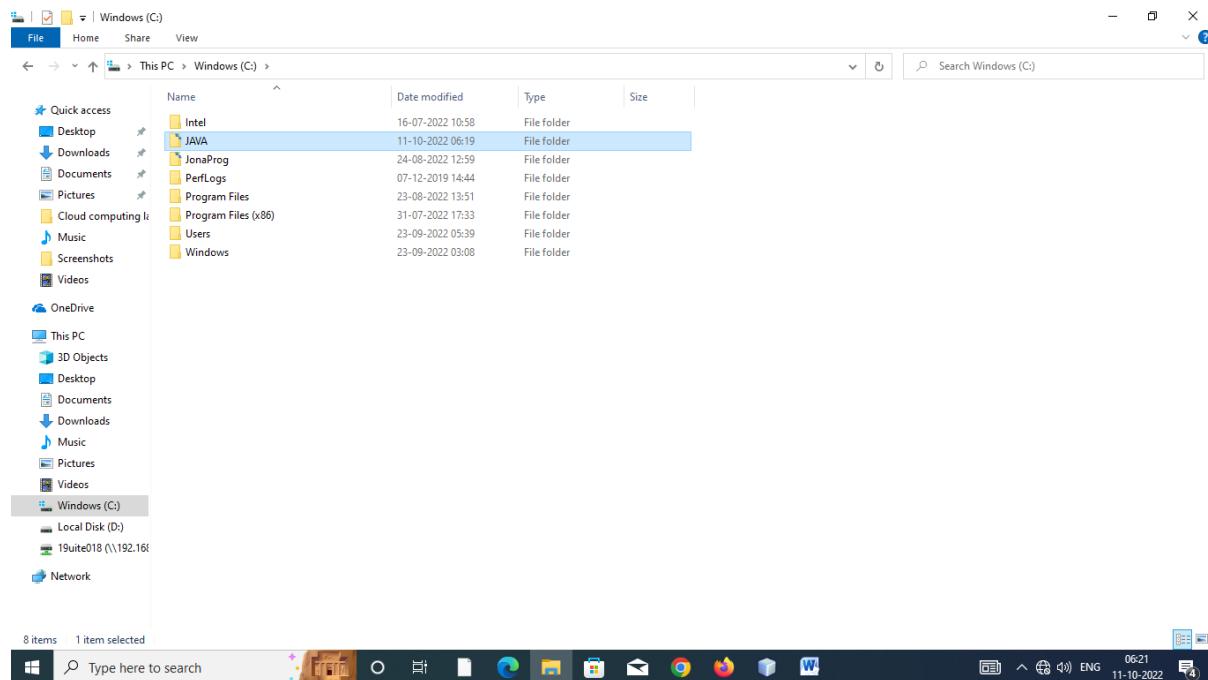


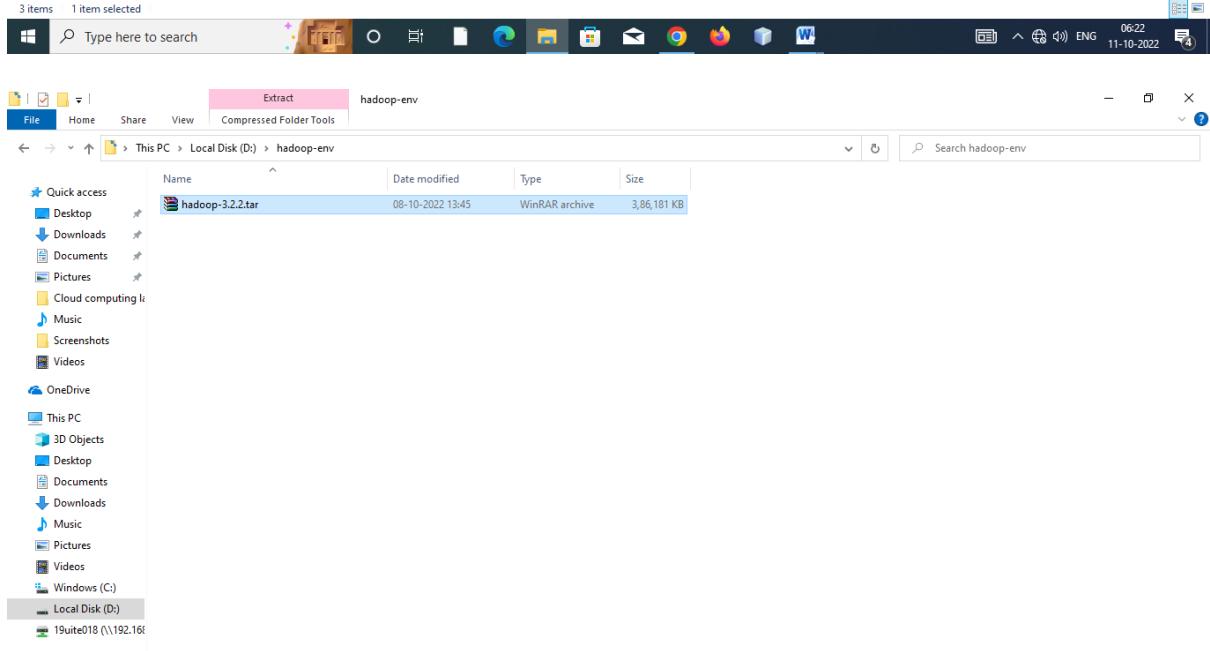
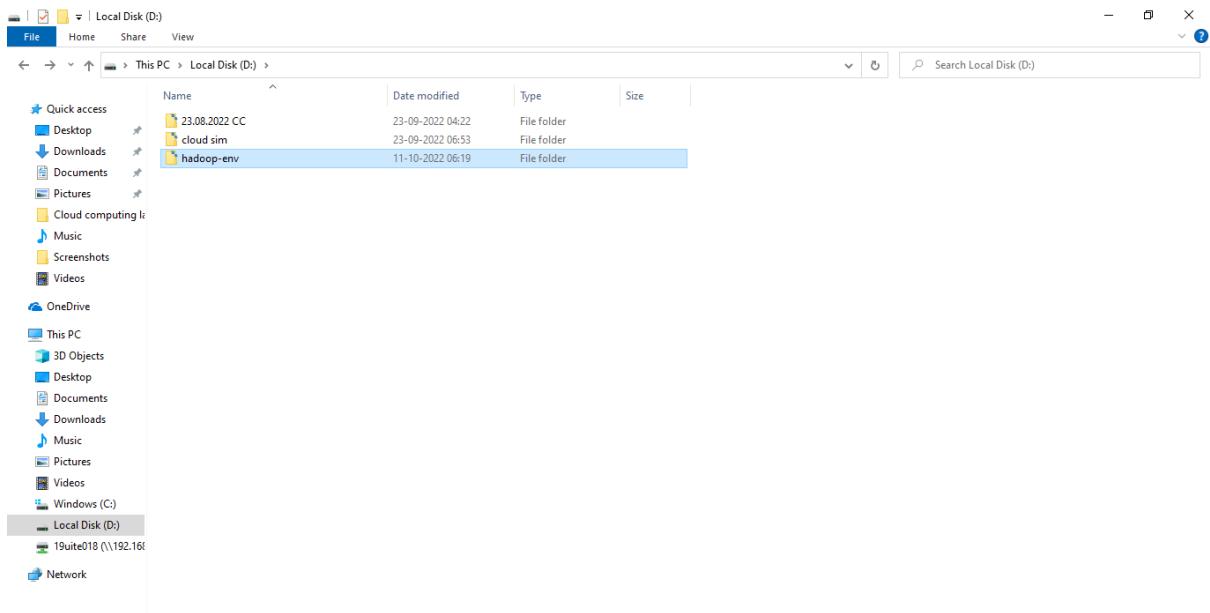
Date : 15/10/22

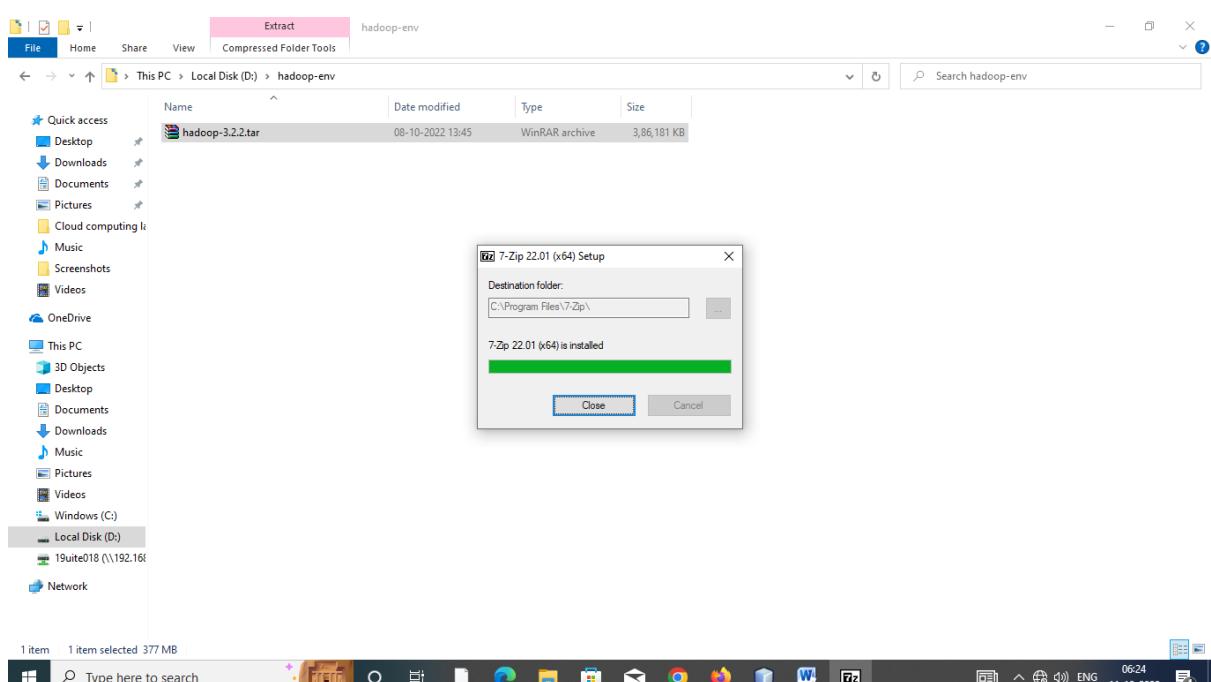
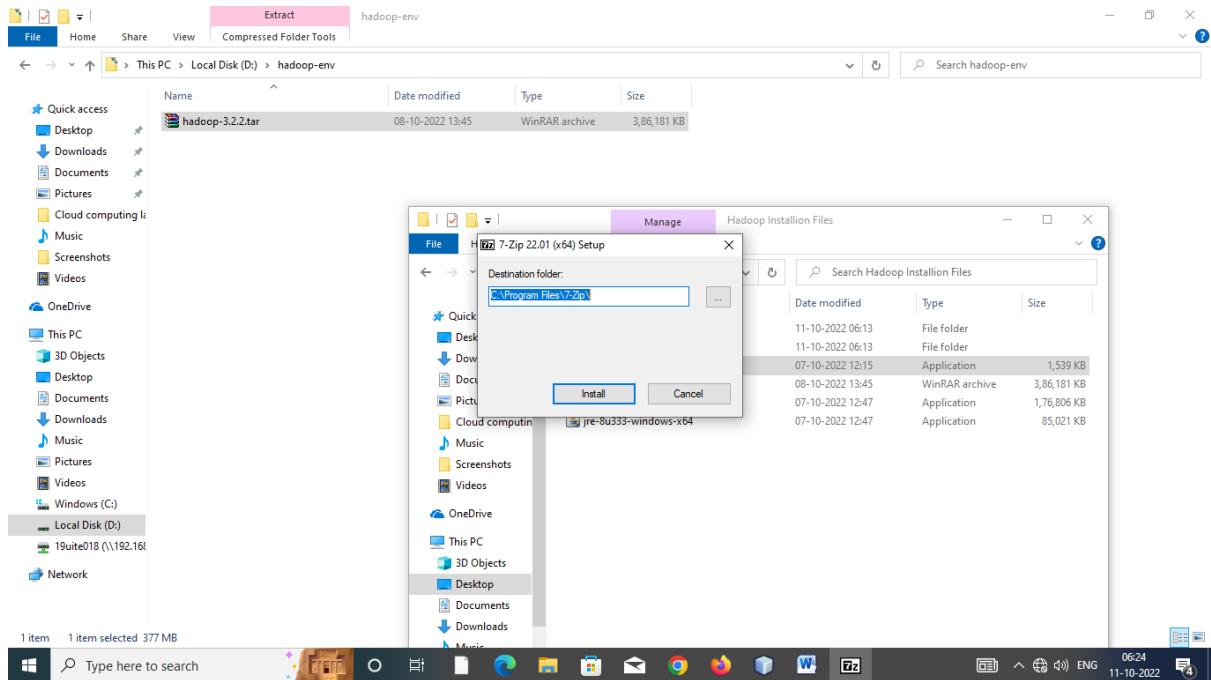
EX:9

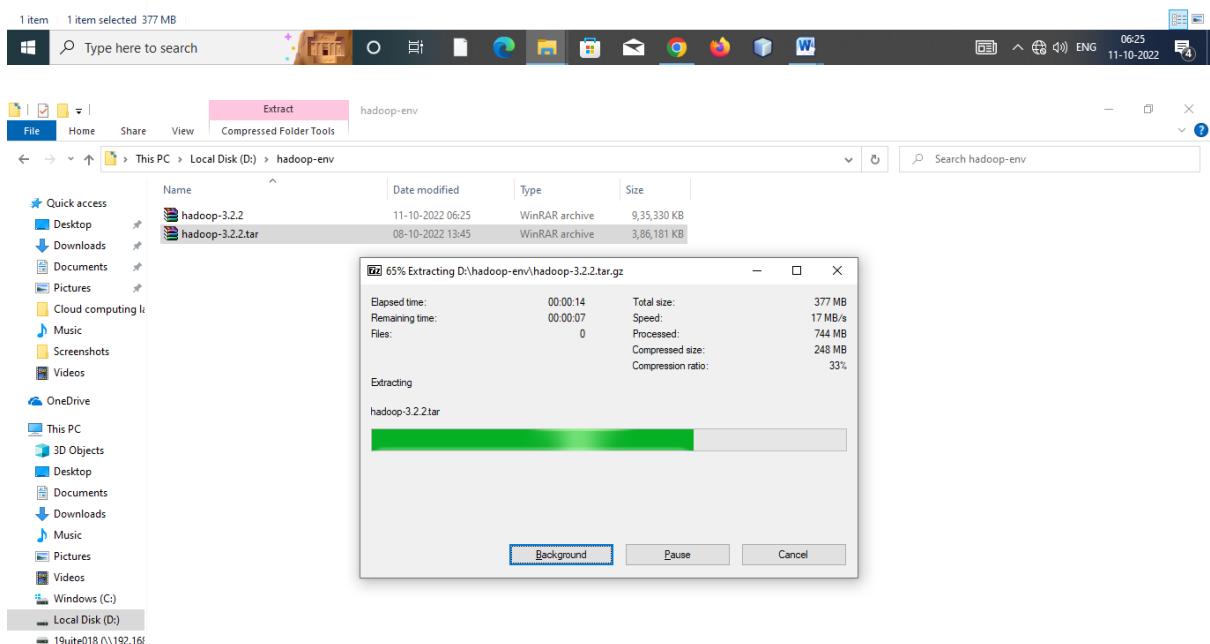
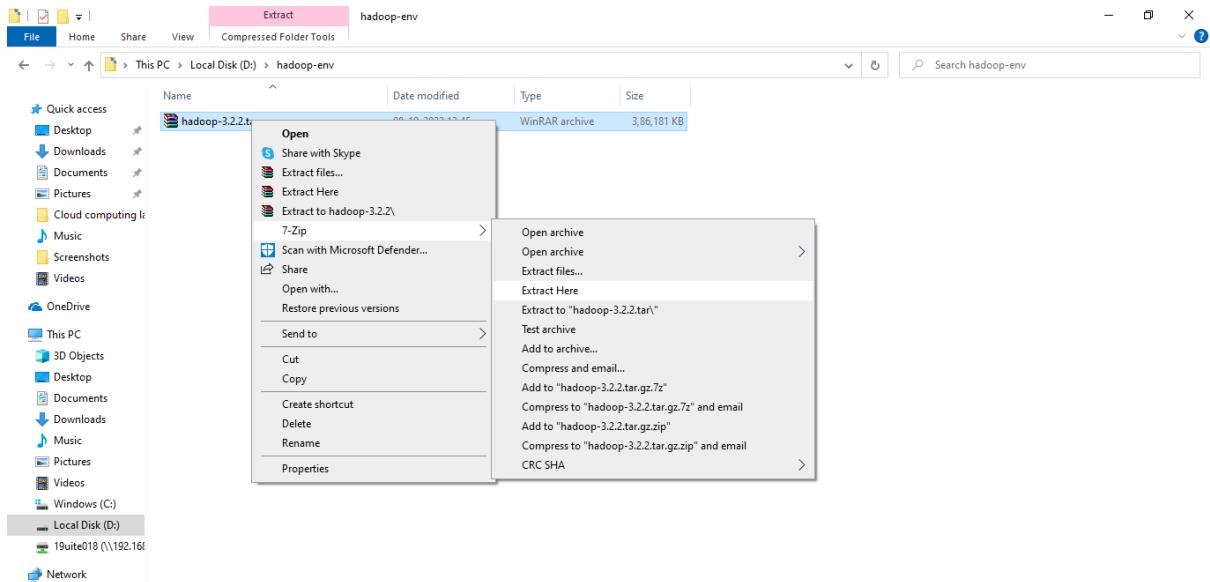
Name : Abhishek S
Roll.No:19UITE018
Reg.No:920419205001

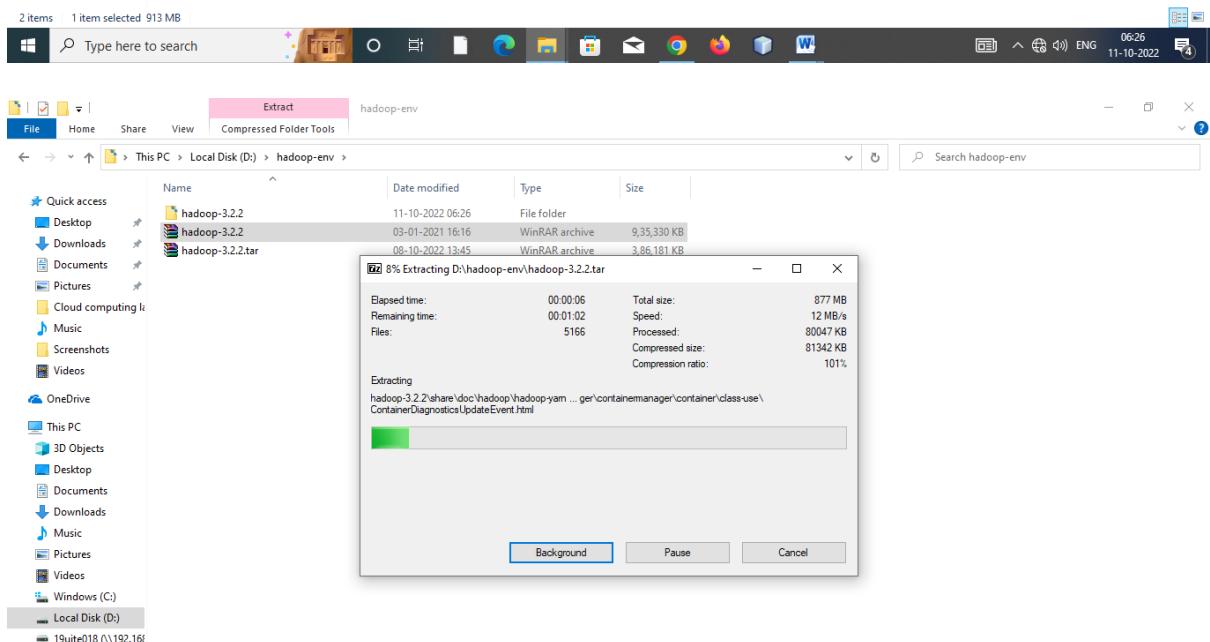
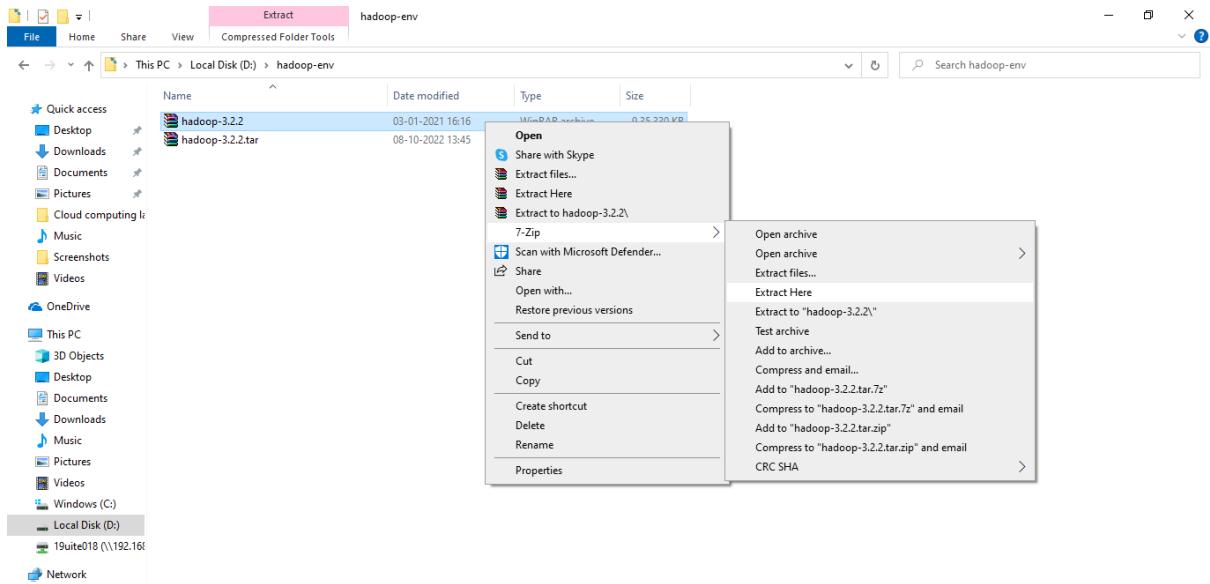
Installation of Single Node Hadoop Cluster

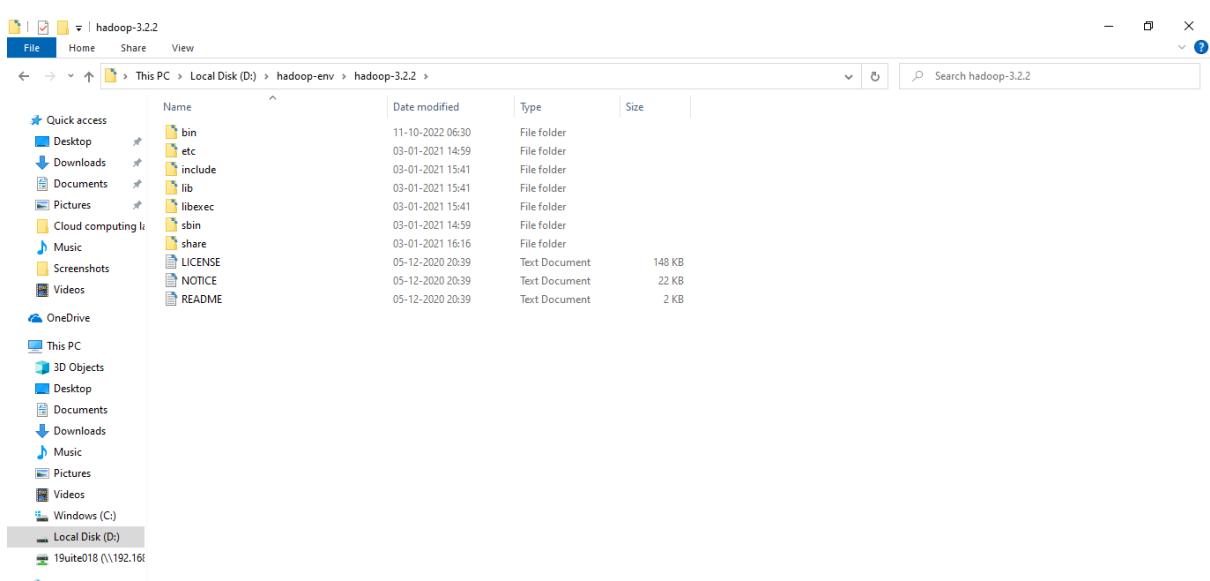
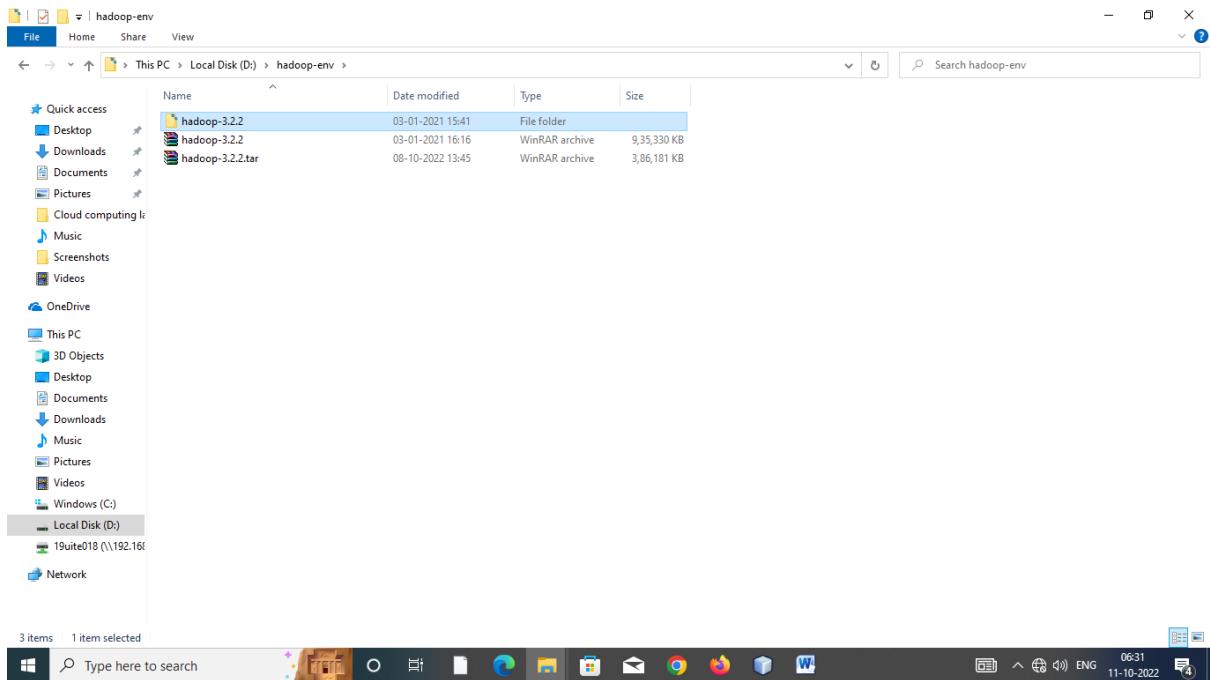


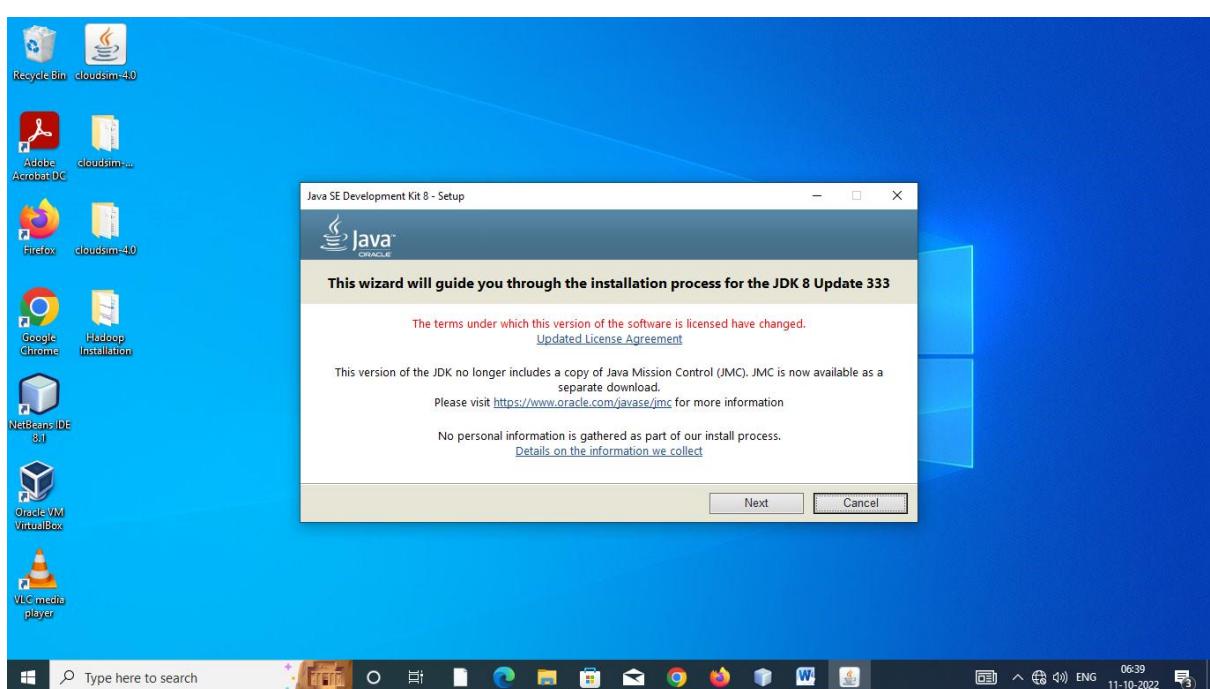
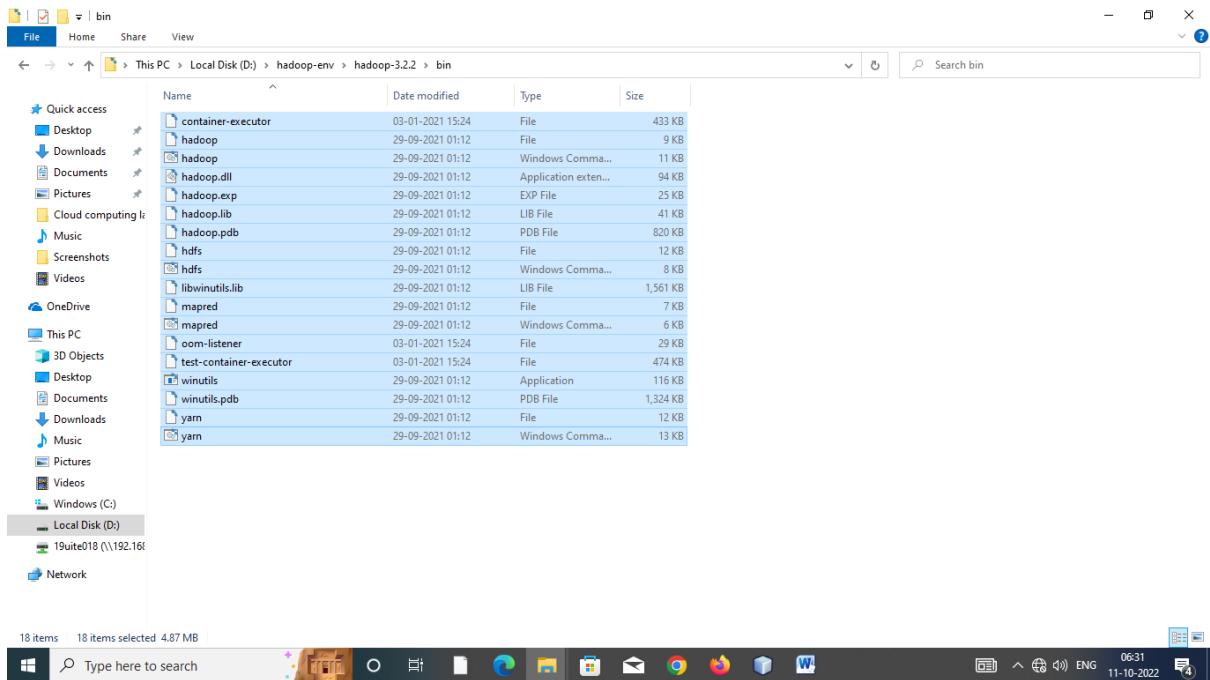


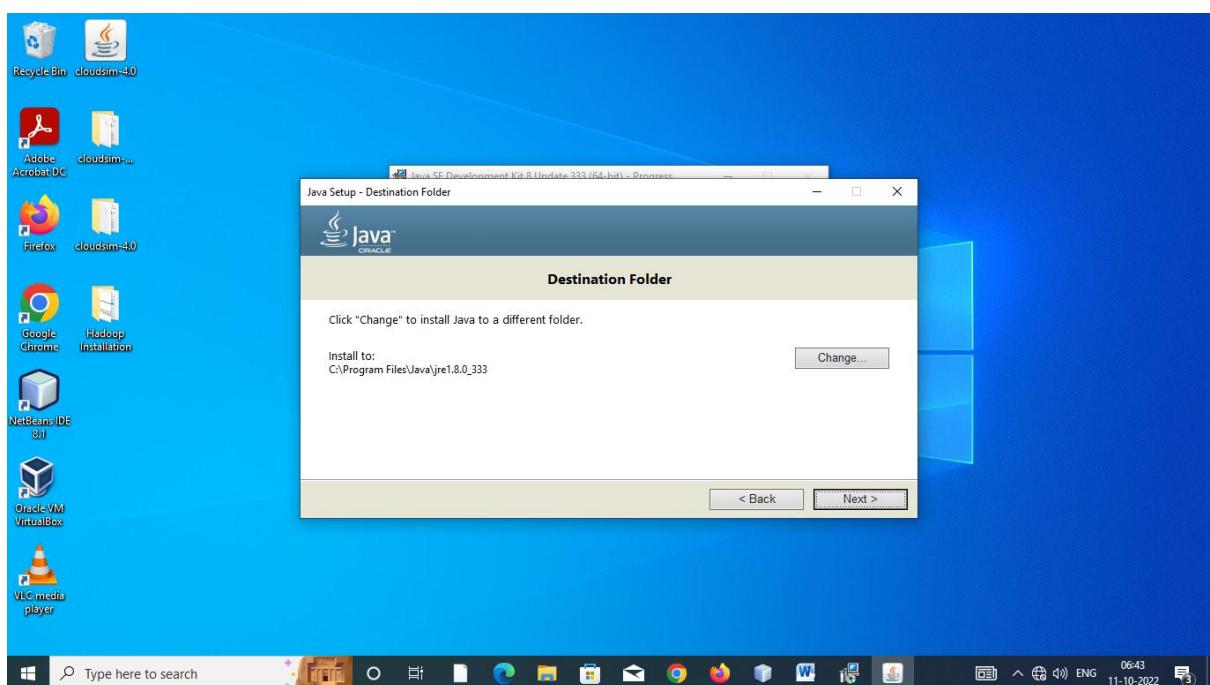
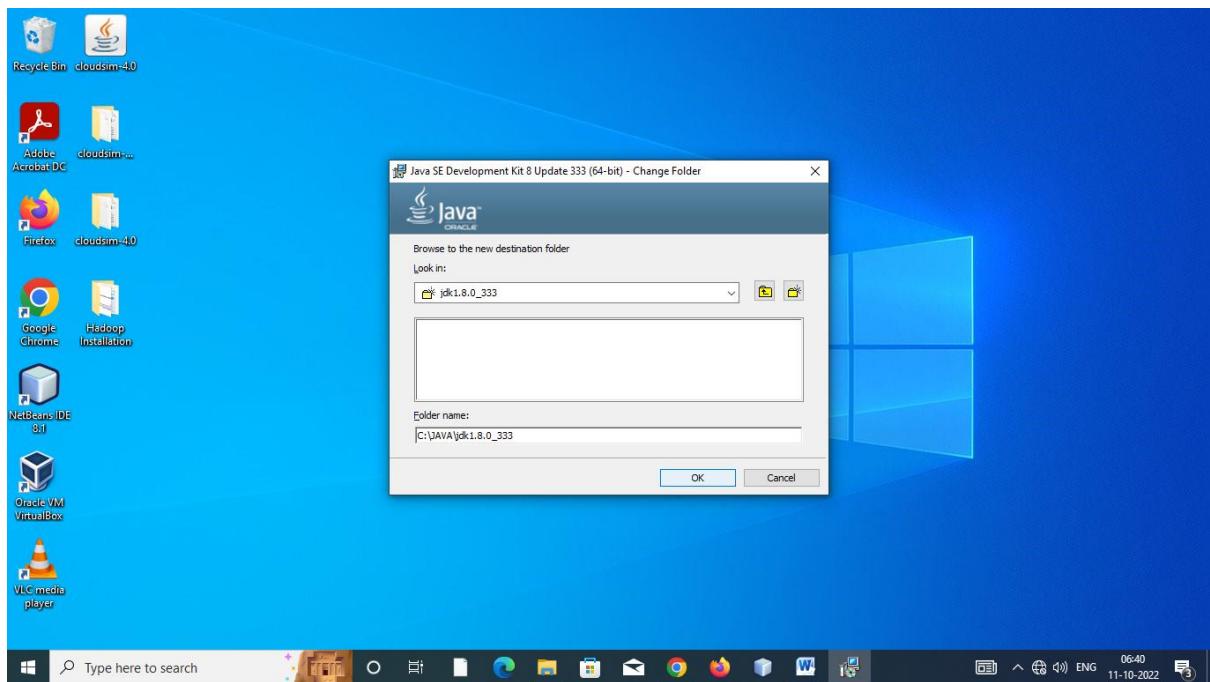


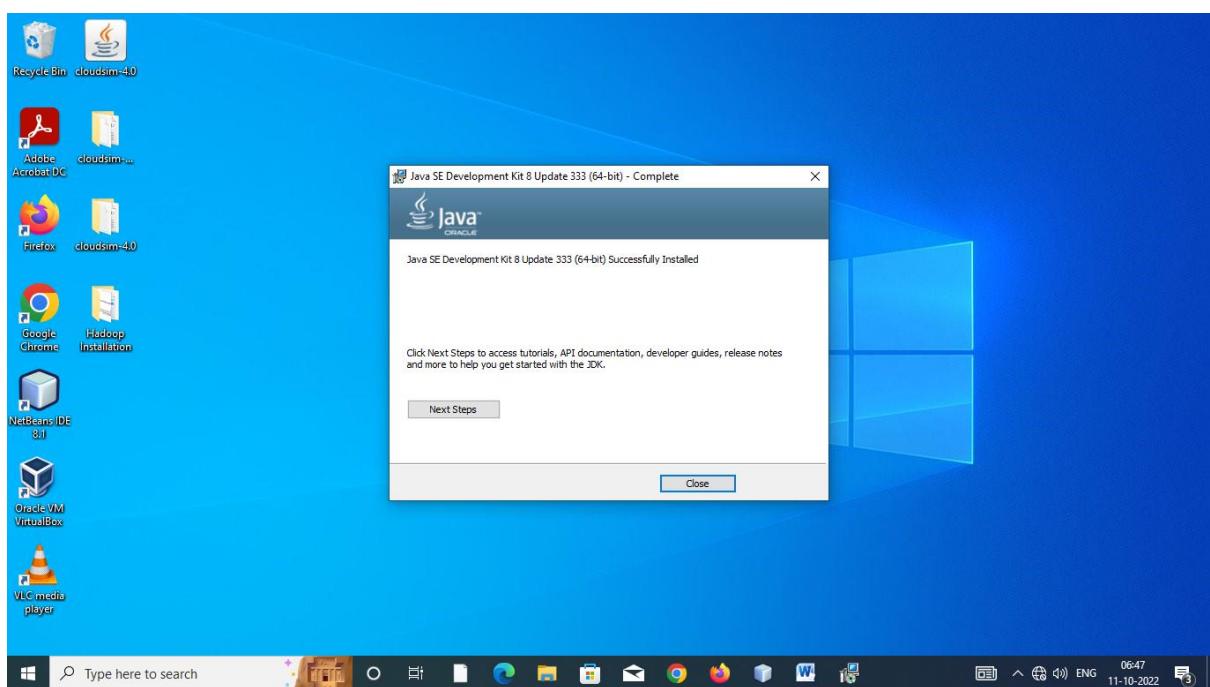
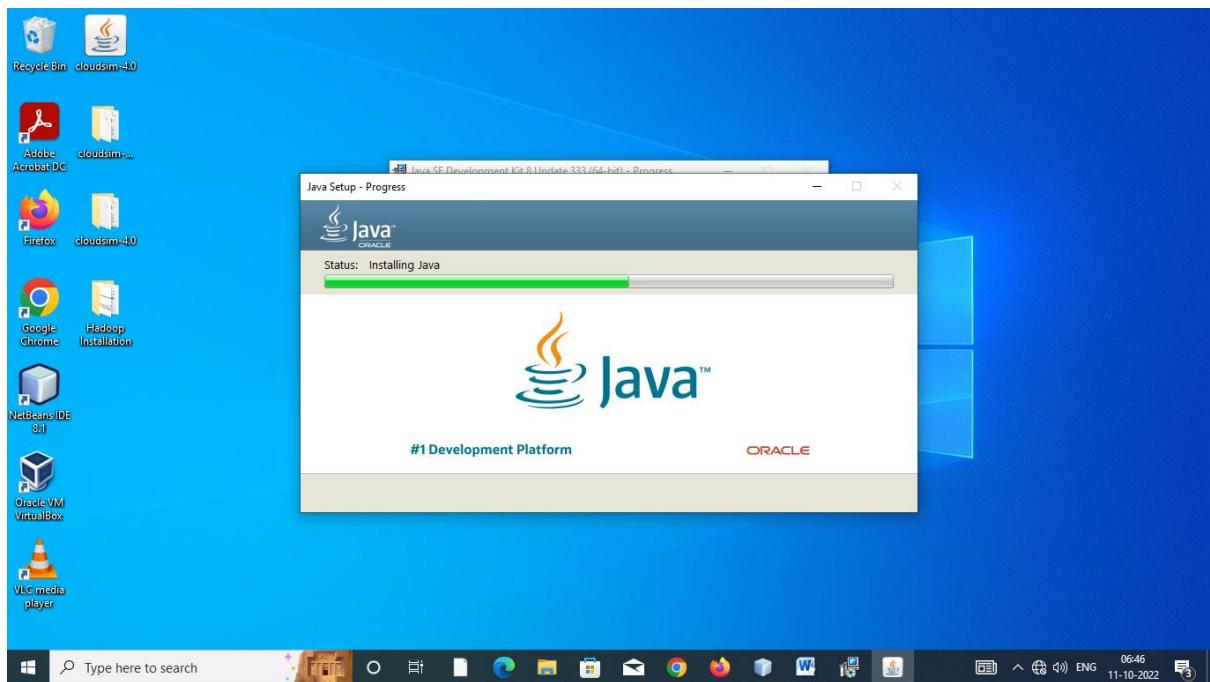


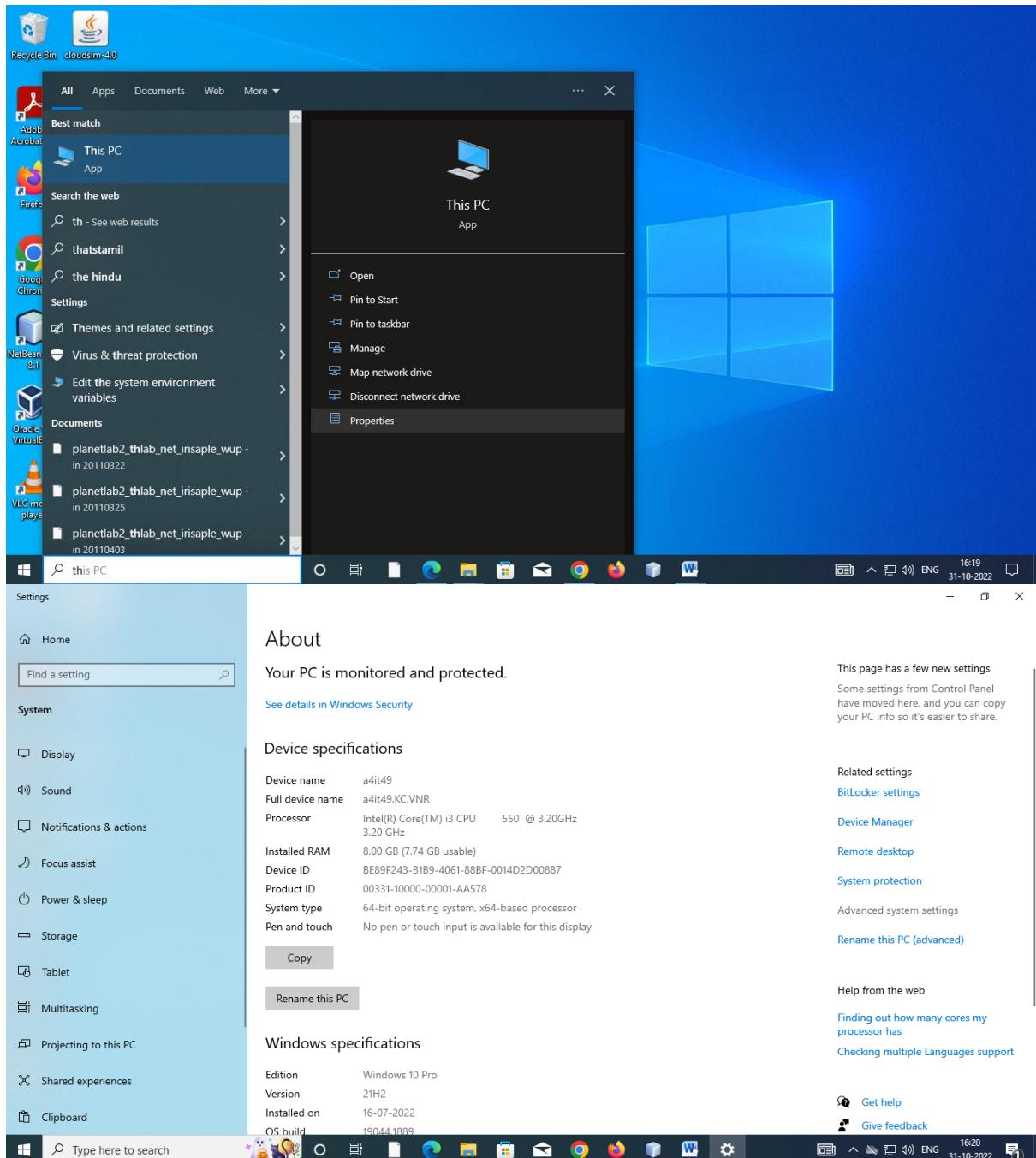


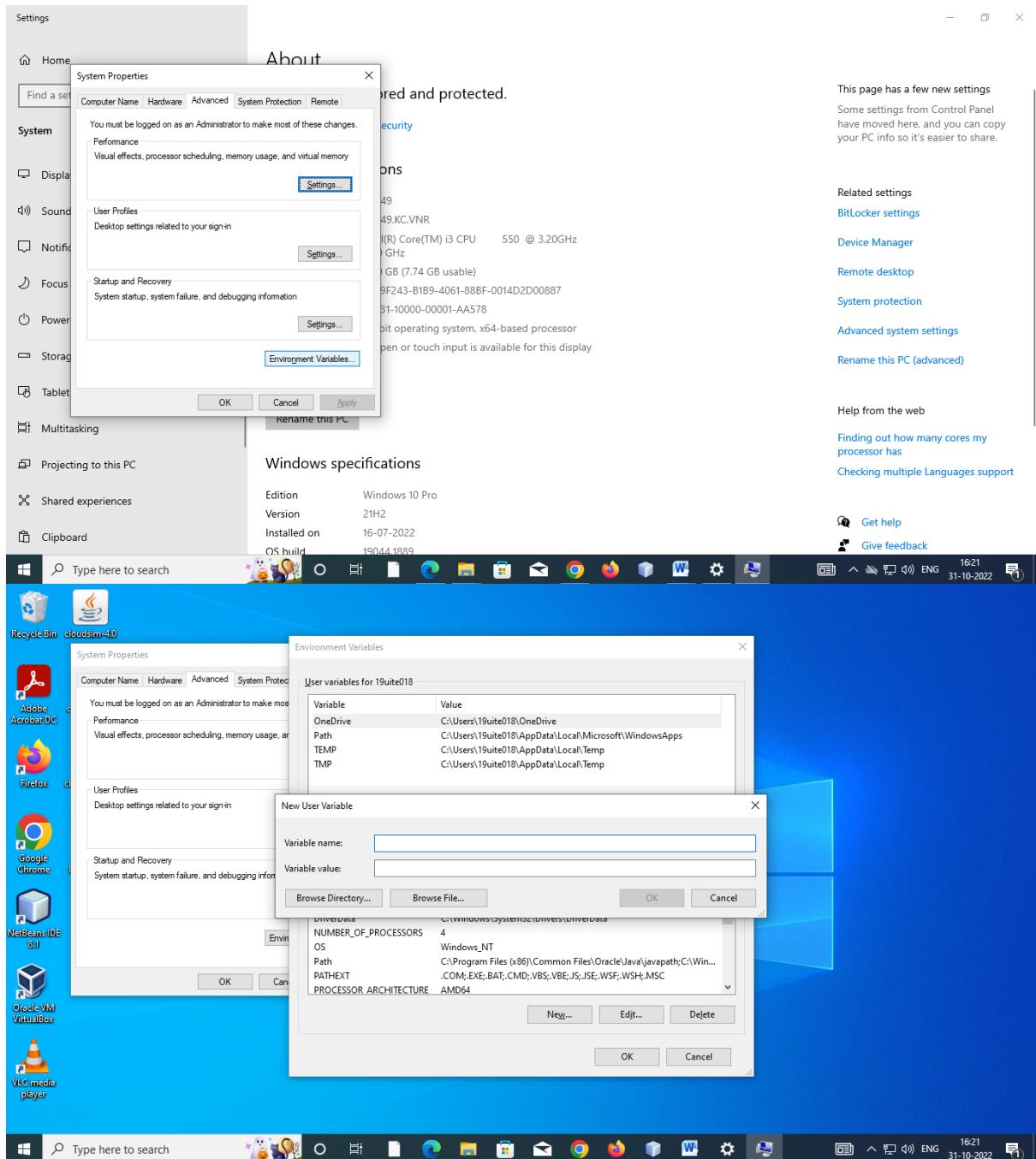


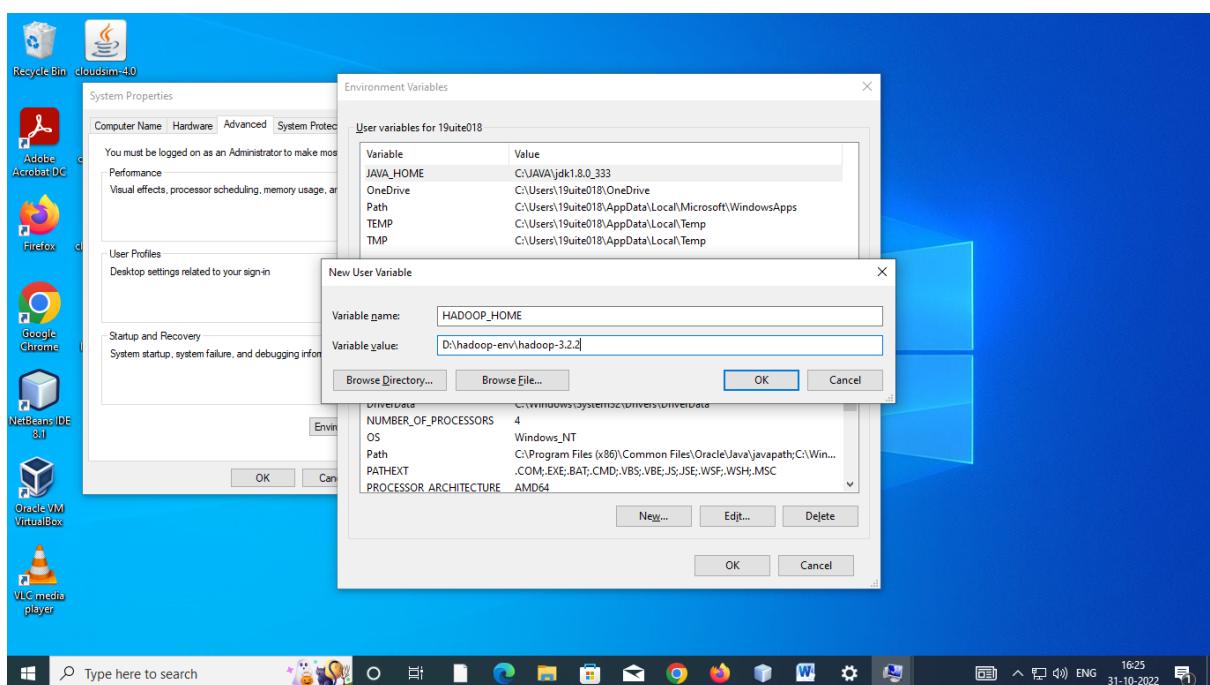
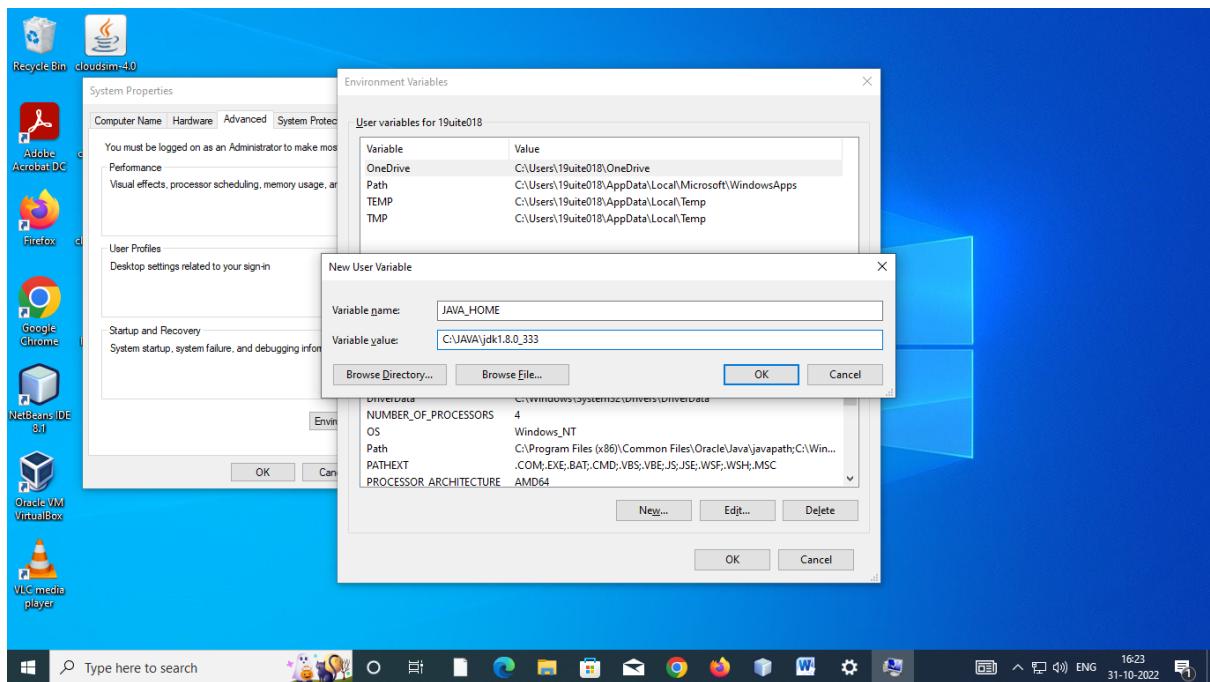


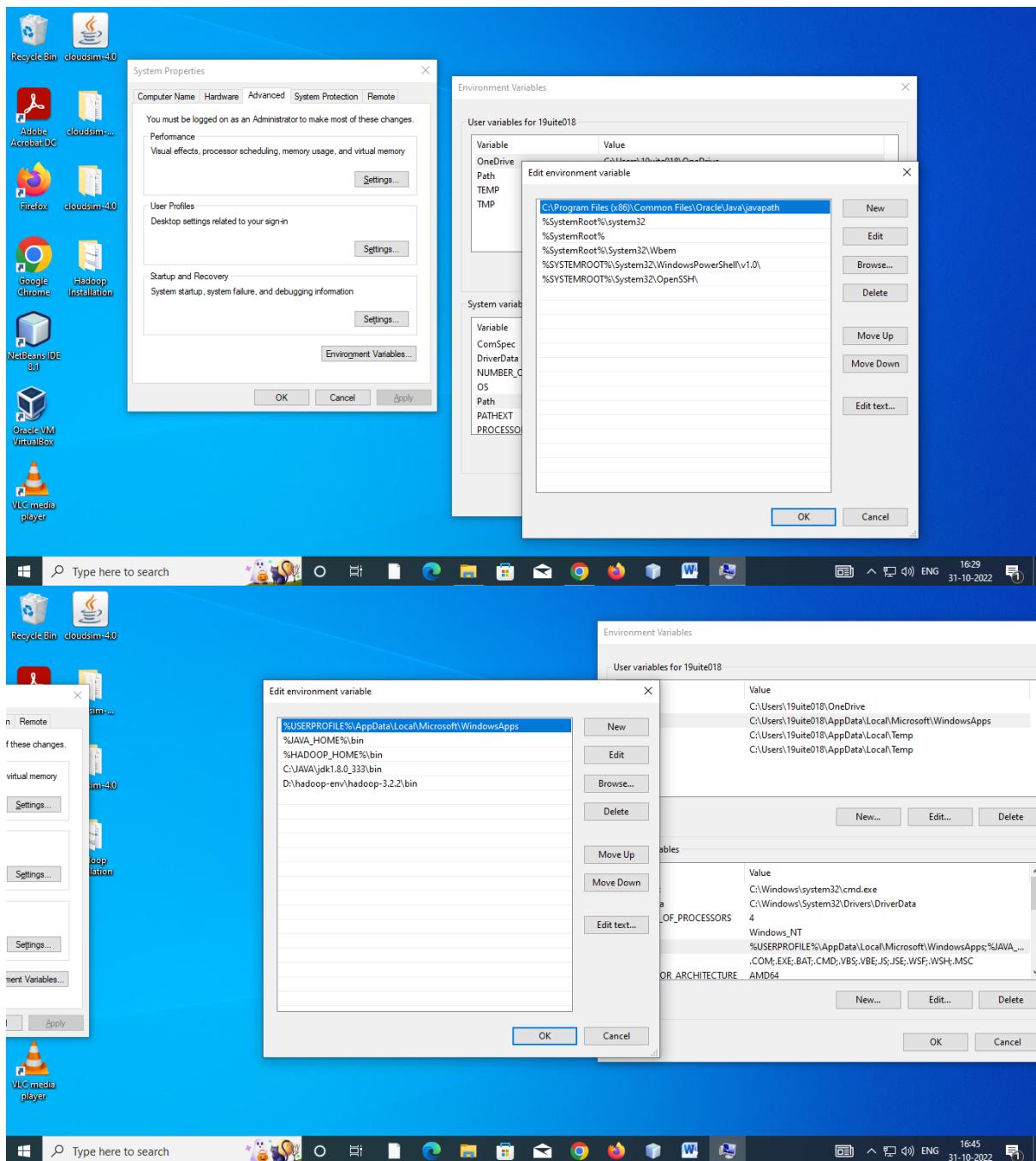


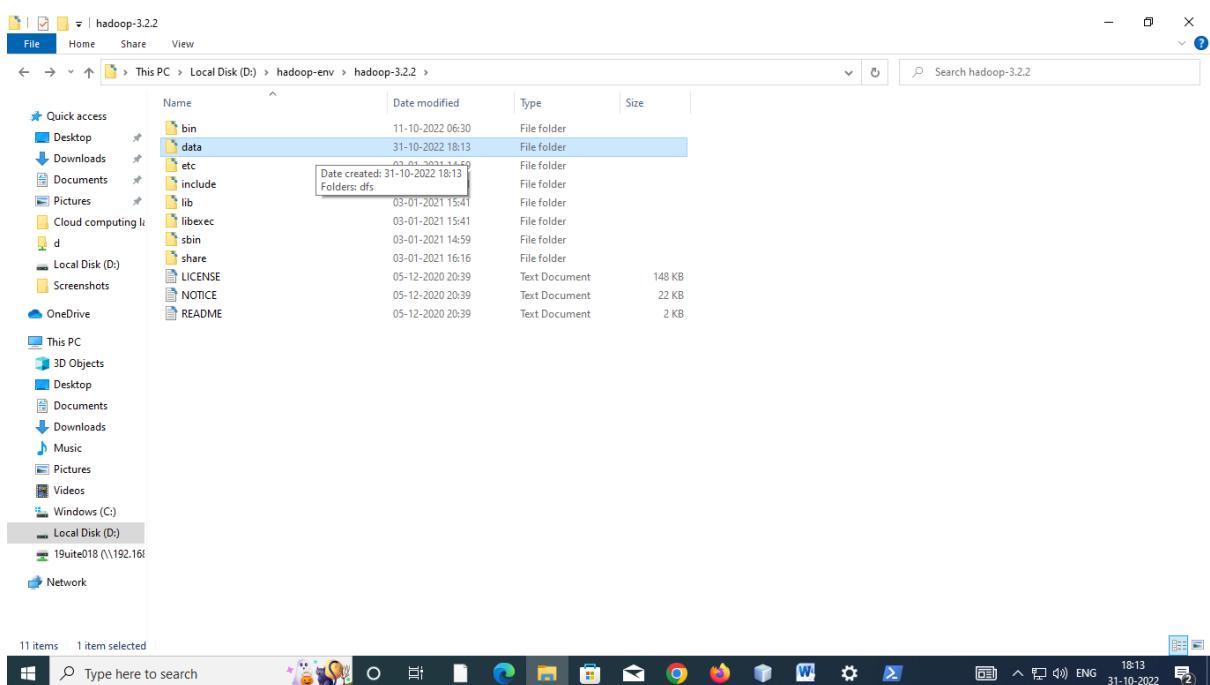
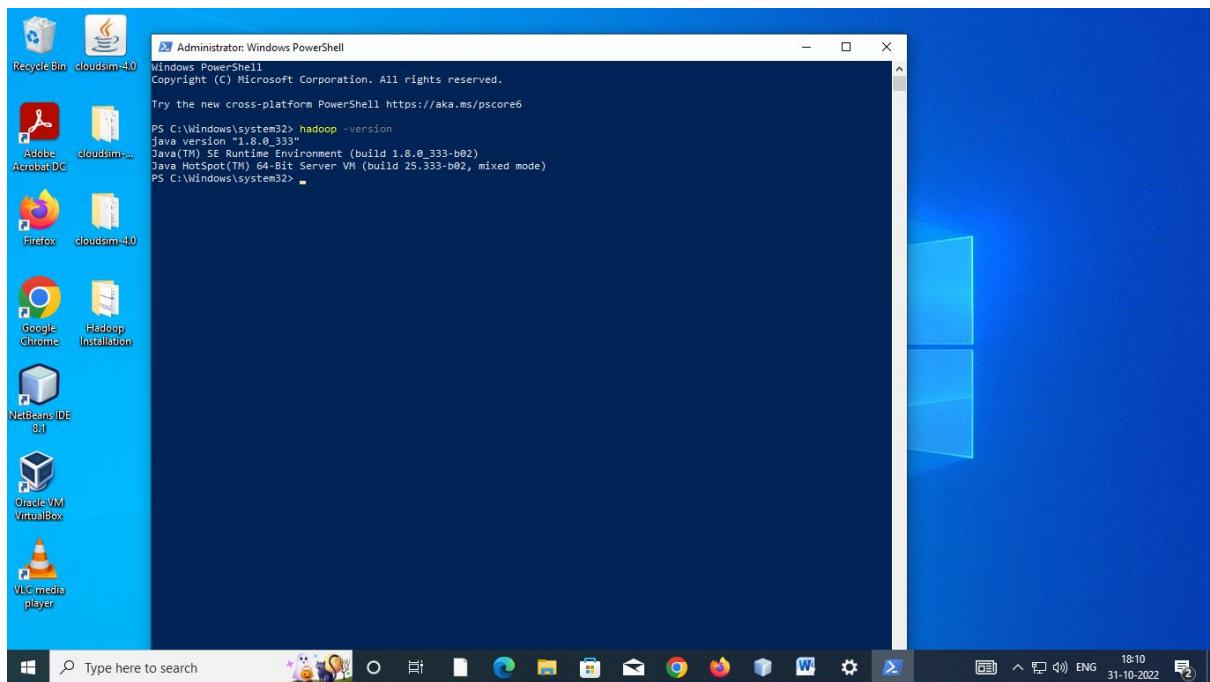


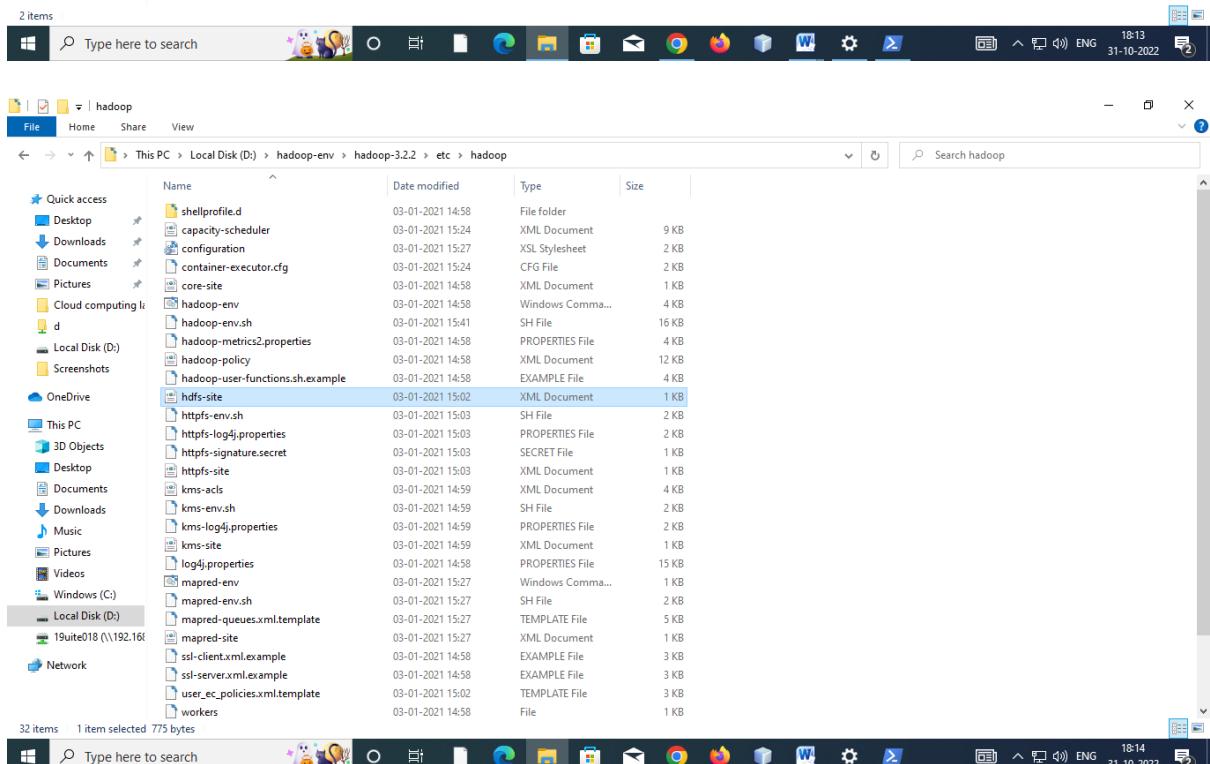
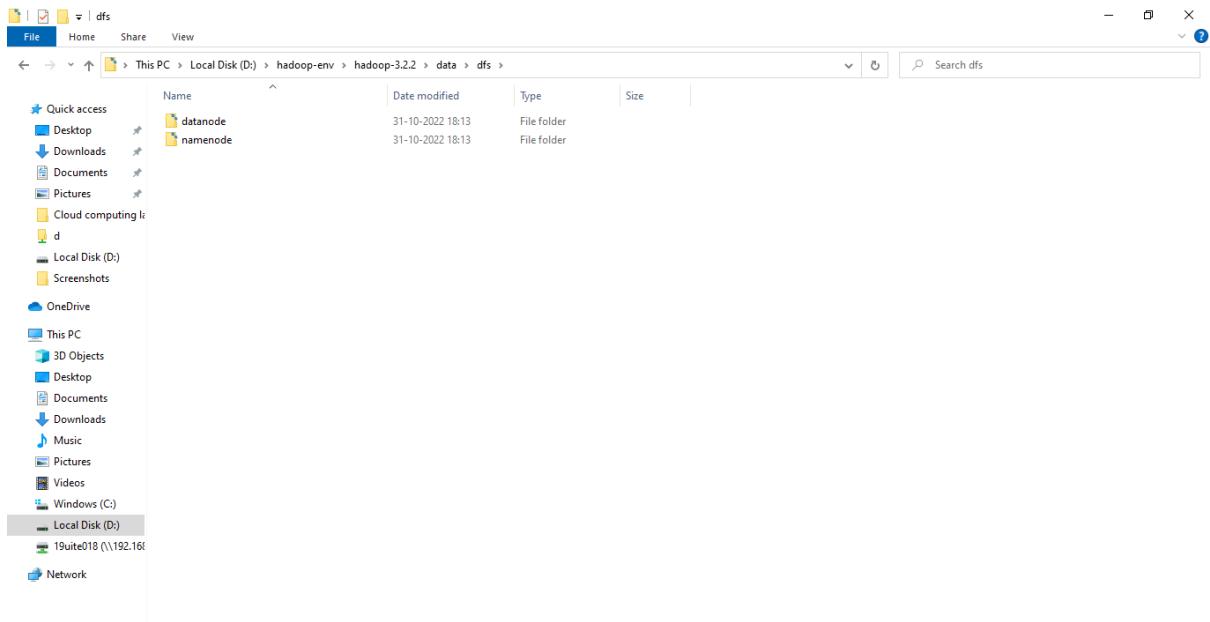












```
*hdfs-site - Notepad
File Edit Format View Help
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type="text/xsl" href="configuration.xsl"?>
<!--
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-->

<!-- Put site-specific property overrides in this file. -->

<configuration>
<property>
<name>dfs.replication</name>
<value>1</value>
</property>
<property>
<name>dfs.namenode.name.dir</name>
<value>file:///D:/hadoop-env/hadoop-3.2.2/data/dfs/namenode</value>
</property>
<property>
<name>dfs.datanode.data.dir</name>
<value>file:///D:/hadoop-env/hadoop-3.2.2/data/dfs/datanode</value>
</property>

</configuration>
```

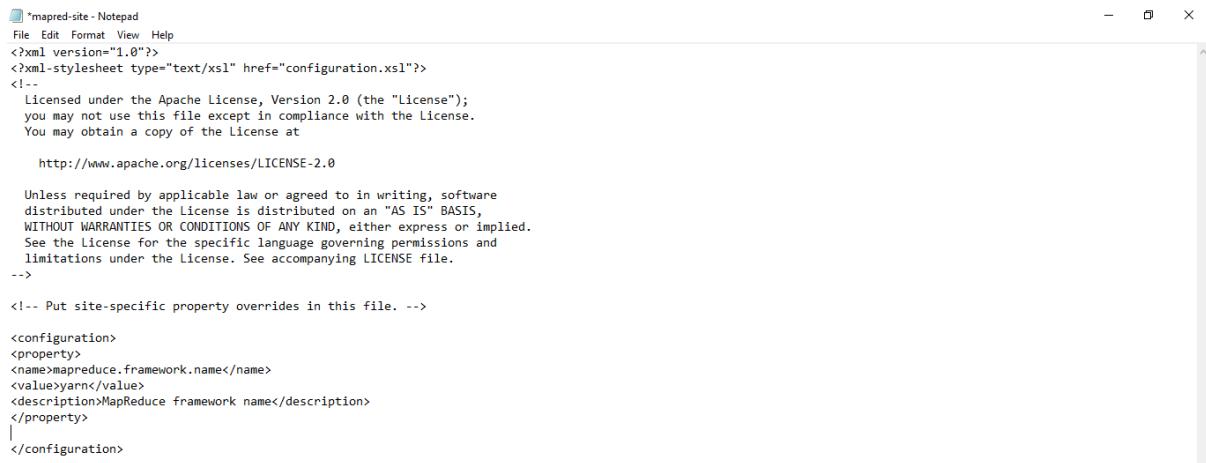
```
*core-site - Notepad
File Edit Format View Help
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type="text/xsl" href="configuration.xsl"?>
<!--
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WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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limitations under the License. See accompanying LICENSE file.
-->

<!-- Put site-specific property overrides in this file. -->

<configuration>
<property>
<name>fs.default.name</name>
<value>hdfs://localhost:9820</value>
</property>
|</configuration>
```

```
*core-site - Notepad
File Edit Format View Help
Ln 24, Col 1 100% Unix (LF) UTF-8
18:18 ENG 31-10-2022
```

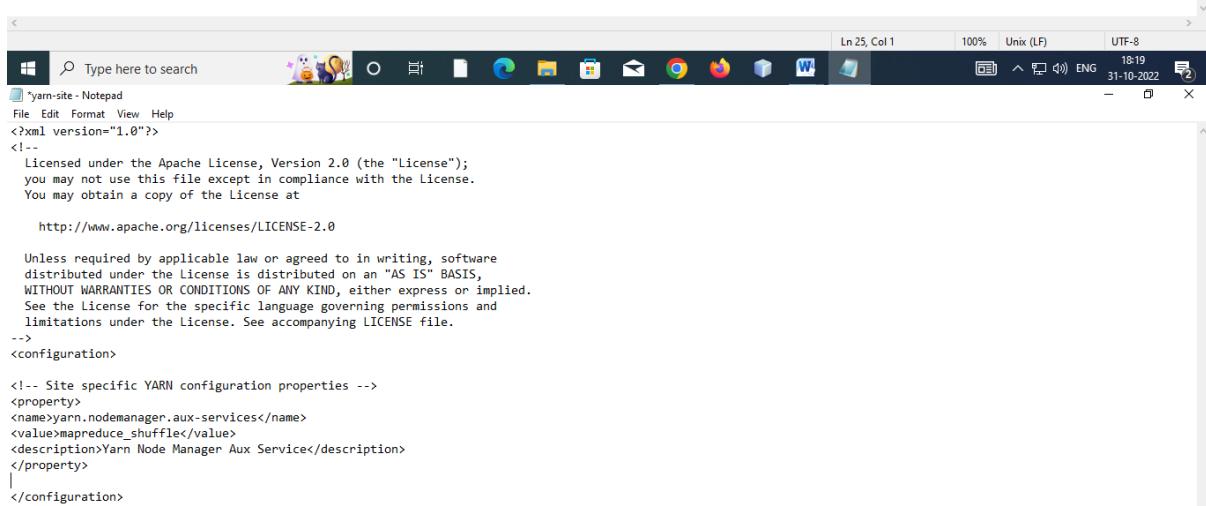


```
*mapred-site - Notepad
File Edit Format View Help
<xml version="1.0"?>
<x?ml-stylesheet type="text/xsl" href="configuration.xsl"?>
<!--
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  See the License for the specific language governing permissions and
  limitations under the License. See accompanying LICENSE file.
-->

<!-- Put site-specific property overrides in this file. -->

<configuration>
<property>
<name>mapreduce.framework.name</name>
<value>yarn</value>
<description>MapReduce framework name</description>
</property>
|
</configuration>
```



```
*yarn-site - Notepad
File Edit Format View Help
<xml version="1.0"?>
<!--
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  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.
-->

<configuration>
<!-- Site specific YARN configuration properties -->
<property>
<name>yarn.nodemanager.aux-services</name>
<value>mapreduce_shuffle</value>
<description>Yarn Node Manager Aux Service</description>
</property>
|
</configuration>
```



```
*yarn-site - Notepad
File Edit Format View Help
Ln 23, Col 1 100% Unix (LF) UTF-8
18:20 ENG 31-10-2022
<!--
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  limitations under the License. See accompanying LICENSE file.
-->

<!-- Put site-specific property overrides in this file. -->

<configuration>
<property>
<name>mapreduce.framework.name</name>
<value>yarn</value>
<description>MapReduce framework name</description>
</property>
|
</configuration>
```

The image shows the Windows taskbar at the bottom of a computer screen. It features a search bar on the left with the placeholder "Type here to search". To the right of the search bar are several pinned icons representing different apps and system functions, including File Explorer, OneDrive, Mail, Photos, Settings, Task View, and a Start button. The taskbar is located at the bottom of the screen, with the desktop background visible above it.


```
Administrator: Windows PowerShell
PS D:\hadoop-env\hadoop-3.2.2\sbin> .\start-dfs.cmd
PS D:\hadoop-env\hadoop-3.2.2\sbin> .\start-yarn.cmd
starting yarn daemons
PS D:\hadoop-env\hadoop-3.2.2\sbin> jps
240 NameNode
6160 Jps
7124 DataNode
5288 ResourceManager
1932 NodeManager
PS D:\hadoop-env\hadoop-3.2.2\sbin> -
```



OUTPUT:

The screenshot shows the 'DFS Health Overview' page from a browser. The top navigation bar includes tabs for 'Hadoop', 'Overview', 'Datanodes', 'Datanode Volume Failures', 'Snapshot', 'Startup Progress', and 'Utilities'. The main content area displays the following information:

Started:	Mon Oct 31 18:28:12 +0530 2022
Version:	3.2.2, r7a3bc90b05f257c8ace2f76d74264906f0f7a932
Compiled:	Sun Jan 03 14:56:00 +0530 2021 by hexiaoqiao from branch-3.2.2
Cluster ID:	CID-8e3bd0a-913e-4e80-80b0-8c6fed996391
Block Pool ID:	BP-1203456125-192.168.56.1-1667220717770

Summary

Security is off.
Safemode is off.
1 files and directories, 0 blocks (0 replicated blocks, 0 erasure coded block groups) = 1 total filesystem object(s).
Heap Memory used 78.69 MB of 192 MB Heap Memory. Max Heap Memory is 889 MB.
Non Heap Memory used 49.13 MB of 50.27 MB Committed Non Heap Memory. Max Non Heap Memory is <unbounded>.

The screenshot shows the 'DataNode Information' page from a browser. The top navigation bar includes tabs for 'Hadoop', 'Overview', and 'Utilities'. The main content area displays the following information:

Cluster ID:	CID-8e3bd0a-913e-4e80-80b0-8c6fed996391
Version:	3.2.2, r7a3bc90b05f257c8ace2f76d74264906f0f7a932

DataNode on a4it49.KC.VNR:9866

Cluster ID:	CID-8e3bd0a-913e-4e80-80b0-8c6fed996391
Version:	3.2.2, r7a3bc90b05f257c8ace2f76d74264906f0f7a932

Block Pools

Namenode Address	Block Pool ID	Actor State	Last Heartbeat	Last Block Report	Last Block Report Size (Max Size)
localhost:9820	BP-1203456125-192.168.56.1-1667220717770	RUNNING	2s	12 minutes	0 B (64 MB)

Volume Information

Directory	Storage Type	Capacity Used	Capacity Left	Capacity Reserved	Reserved Space for Replicas	Blocks
D:\hadoop-env\hadoop-3.2.2\data\dfs\datanode	DISK	322 B	224.1 GB	0 B	0 B	0

The screenshot shows the Windows taskbar with several pinned icons and the 'DataNode Information' window open. The taskbar also displays system status like battery level (18:40), date (31-10-2022), and language (ENG).

All Applications +

localhost:8088/cluster

Logged in as: ds.who

All Applications

hadoop

Cluster Metrics

Apps Submitted	Apps Pending	Apps Running	Apps Completed	Containers Running	Used Resources	Total Resources	Reserved Resources	Physical Mem Used %	Physical Vcores Used %
0	0	0	0	0	<memory:0, vCores:0>	<memory:8192, vCores:8>	<memory:0, vCores:0>	48	0

Cluster Nodes Metrics

Active Nodes	Decommissioning Nodes	Decommissioned Nodes	Lost Nodes	Unhealthy Nodes	Rebooted Nodes	Shutdown Nodes
1	0	0	0	0	0	0

Scheduler Metrics

Scheduler Type	Scheduling Resource Type	Minimum Allocation	Maximum Allocation	Maximum Cluster Application Priority
Capacity Scheduler	[memory_mb (Unit=M), vcores]	<memory:1024, vCores:1>	<memory:8192, vCores:4>	0

Show 20 entries

No data available in table

Search:

ID User Name Application Queue Application Priority StartTime LaunchTime FinishTime State FinalStatus Running Containers Allocated CPU Memory Allocated GPUs Reserved CPU Reserved Memory Reserved GPUs % of Queue % of Cluster Progress Tracking UI Blacklisted Nodes

Showing 0 to 0 of 0 entries

First Previous Next Last

