***Exp2:***

sudo apt install build-essential

gcc --version

touch hello.c

gcc hello.c –o test

./test

VMWARE KEY

ZF3R0-FHED2-M80TY-8QYGC-NPKYF

***Exp 5***

1.download python, gcloudSDK

2.google-cloud-sdk\bin\dev\_appserver.py

3. \_\_\_\_\_\_\_\_ “directory of the folder”

App.yaml

runtime: python27

api\_version: 1

threadsafe: false

handlers:

- url: /

script: test.py

***exp:6***

1. Install eclipse
2. Help->eclipse workspace->google cloud tool- install
3. Create new project from googlecloud icon
4. Windows->preferences->check JDK and gcloud file directory
5. Run

gcloud components install app-engine-java

***Exp 8***

[***https://github.com/MuhammadBilalYar/Hadoop-On-Window***](https://github.com/MuhammadBilalYar/Hadoop-On-Window)

[**https://muhammadbilalyar.github.io/blogs/How-to-install-Hadoop-on-Window-10/**](https://muhammadbilalyar.github.io/blogs/How-to-install-Hadoop-on-Window-10/)

Env vaiables "Java\_home" "Hadoop\_Home" added , add Hadoop environment to the path in environment variable.

Create new folder “data->datanode,namenode”

hadoop 2.8.0 -> etc - > hadoop ->

1. core-site.xml - within configuration tag

**<property>**

**<name>fs.defaultFS</name>**

**<value>hdfs://localhost:9000</value>**

**</property>**

2. mapred-site.xml

**<property>**

**<name>mapreduce.framework.name</name>**

**<value>yarn</value>**

**</property>**

3.hdfs-site.xml

**<property>**

**<name>dfs.replication</name>**

**<value>1</value>**

**</property>**

**<property>**

**<name>dfs.namenode.name.dir</name>**

**<value>/C:\hadoop-2.8.0\data\namenode</value>**

**</property>**

**<property>**

**<name>dfs.datanode.data.dir</name>**

**<value>/C:\hadoop-2.8.0\data\datanode</value>**

**</property>**

4. yan-site.xml

**<property>**

**<name>yarn.nodemanager.aux-services</name>**

**<value>mapreduce\_shuffle</value>**

**</property>**

**<property>**

**<name>yarn.nodemanager.auxservices.mapreduce.shuffle.class</name>**

**<value>org.apache.hadoop.mapred.ShuffleHandler</value>**

**</property>**

5. hadoop-env.xml

**@rem The java implementation to use. Required.**

**set JAVA\_HOME=> C:\Java\jdk1.8.0\_111**

6. Copy files from hadoop configuration/bin/ all

to hadoop 2.8.0/bin/(replace)

How to run

**cmd #1 - hdfs namenode -format**

**cd <path of hadoop 2.8.0 / sbin>**

**start-all.cmd**

Go to localhost/8088

------------------Installation of Hadoop--------------------------------

------------------Map Reduce--------------------------------------------

~~OPen NetBeans~~

~~Create Project -> Java Applicaion~~

~~project right click -> Properties -> left la libraies -> add 5 jar~~

~~Graphical user interface, text

Description automatically generated~~

Copy and paste the **MapReduceClient.jar** file into C drive (from github)

Create a file **wordcount.txt** add testtext there

Cmd #1 cd <Hadoop 2.8.0 / bin>

Cmd #2 hdfs namenode -format

Cmd #3 cd sbin

Cmd #4 start-all.cmd

Cmd #5 jps



Go to localhost:8088

Go to localhost:50070

Cd/

Hadoop dfsadmin -safemode leave OP: Safemode is OFF

Hadoop fs -mkdir /input\_dir OP: Access Denied

Hadoop fs -put C:/wordcount.txt /input\_dir OP: access deied

Hadoop dfs – cat /input\_dir OP : Access denied x2

Hadoop fs -ls /input\_dir OP: shows textcount file name

Hadoop dfs – cat /input\_dir/wordcount.txt OP: cotents of wordcount.txt

Hadoop jar C:/MapReduceClient.jar wordcount /input\_dir /output\_dir (Takes time)

Hadoop dfs -cat /output\_dir/\* OP: gives wordcount

Go to localhost:8088 Check if wordcount file is displayed

Stop-all.cmd OP: To stop all running cmds

**Hadoop dfsadmin -safemode leave**

**Hadoop fs -mkdir /input\_dir**

**Hadoop fs -put C:/wordcount.txt /input\_dir**

**Hadoop dfs – cat /input\_dir**

**Hadoop fs -ls /input\_dir**

**Hadoop jar C:/MapReduceClient.jar wordcount /input\_dir /output\_dir**

**Hadoop dfs -cat /output\_dir/\***