```
1. Ensure your system has java.
    Java 8 is present in your system.
2. https://archive.apache.org/dist/hadoop/common/hadoop-3.2.0/hadoop-3.2.0.tar.qz
3. move to your desired location with good memory space
4. now extract with 7zip
5. setup system variables
    - HADOOP HOME
    - PATH (\overline{b}oth for bin and sbin)
6. Modify the file in etc folder.
   core-site
   mapred-site
   hdfs-site
   yarn-site
   hadoop-env
 7. core-site
    property>
       <name>fs.defaultFS</name>
       <value>hdfs://localhost:9000</value>
    </property>
 8. mapred-site
    Make copy of mapred-site.xml.template and rename to mapred-site.xml
    property>
       <name>mapreduce.framework.name</name>
       <value>yarn</value>
    </property>
9. Create a "data" folder in hadoop directory inside data folder create datanode (any files
pushed in data node will be stored as blocks) and namenode (will be used by namenode for
fsimages and editlogs)
        data
            datanode
            namenode
10. hdfs-site
     cproperty>
       <name>dfs.replication</name>
       <value>1</value>
    </property>
    property>
       <name>dfs.namenode.name.dir</name>
       <value>F:\Software\Apache\Hadoop\hadoop-3.2.0\data\namenode</value>
    </property>
    cproperty>
       <name>dfs.datanode.data.dir
        <value>F:\Software\Apache\Hadoop\hadoop-3.2.0\data\datanode</value>
    </property>
11. yarn-site
    cproperty>
        <name>yarn.nodemanager.aux-services
        <value>mapreduce_shuffle</value>
      </property>
     cproperty>
        <name>yarn.nodemanager.auxservices.mapreduce.shuffle.class/name>
        <value>org.apache.hadoop.mapred.ShuffleHandler</value>
    </property>
12. hadoop-env
    set JAVA HOME=D:\InstalledPrograms\Java
```

13. below 3.2.xx

Hadoop needs windows OS specific files which does not come with default download of hadoop To include those files, replace the bin folder in hadoop directory with the bin folder provided in the below link.

download the bin file based on your hadoop version.

above 3.2.xx

copy the files in the downlaod from the bin and place it in hadoop bin floder

https://github.com/cdarlint/winutils

- 14. check hadoop installion in command prompt hadoop version
- 15. Format the NameNode in command prompt hdfs namenode -format
- 16. now in command port start all the hadoop services (start-all.cmd which in sbin)

start-all (or) start-dfs.cmd , start-yarn.cmd

17. now check the resource manager , namenode and data node

-current jobs, successful and failed jobs, go to this link in browser-http://localhost:8088/cluster

name node and data node details
http://localhost:9870/

18. checking hadoop working properly .

create as samplefile in windows pc which need to be pushed to hadoop sample.txt

F:\Software\Apache\Hadoop\temp\sample.txt

hadoop fs -mkdir /TestFolder

hadoop fs F:\Software\Apache\Hadoop\temp\sample.txt /TestFolder

check the file is added to hdfs

hadoop fs -ls /TestFolder/*

to see data

hadoop dfs -cat /TestFolder/sample.txt

19. for more details on Hadoop commands

https://hadoop.apache.org/docs/r3.1.0/hadoop-project-dist/hadoop-hdfs/HDFSCommands.html