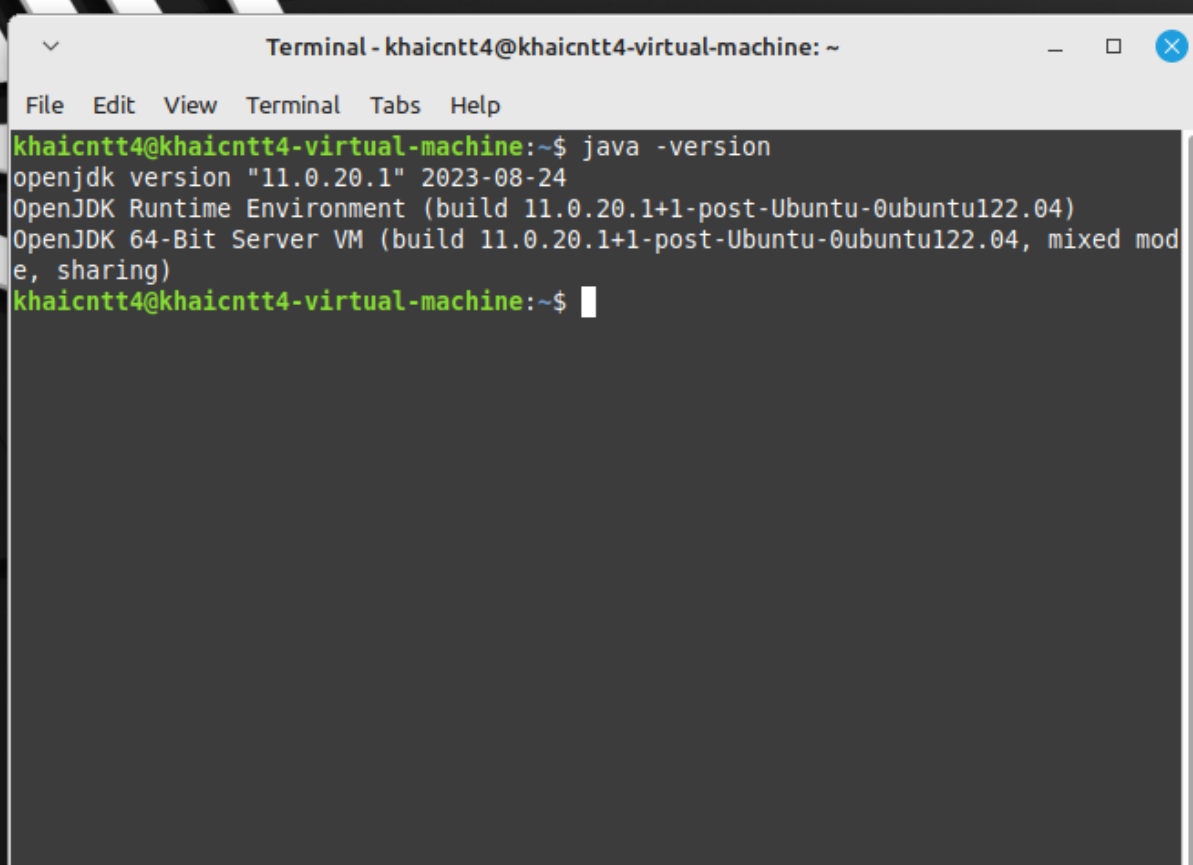


LAB 7

Họ tên SV: Đỗ Văn Khải

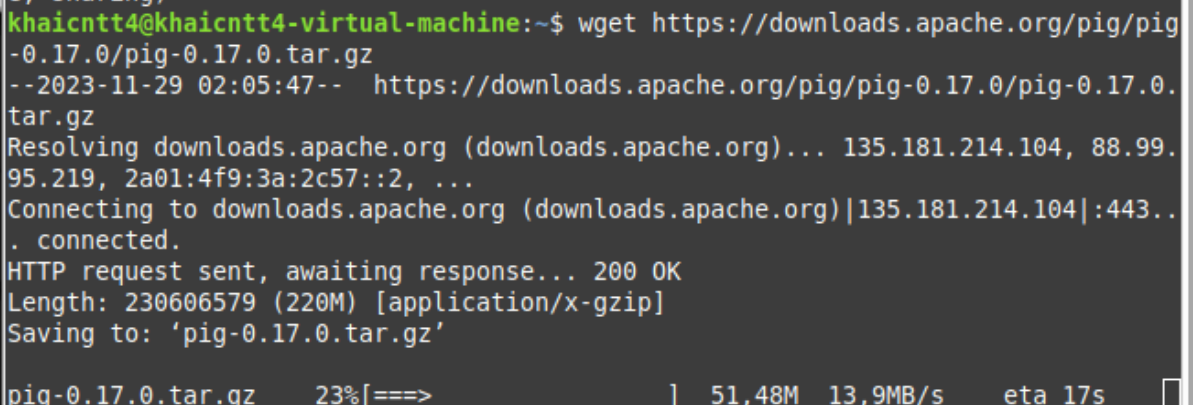
B1: Kiểm tra xem có java chưa?

A terminal window titled "Terminal - khaicntt4@khaicntt4-virtual-machine: ~" with a menu bar (File, Edit, View, Terminal, Tabs, Help). The terminal shows the command "java -version" being executed. The output is: "openjdk version "11.0.20.1" 2023-08-24", "OpenJDK Runtime Environment (build 11.0.20.1+1-post-Ubuntu-0ubuntu122.04)", and "OpenJDK 64-Bit Server VM (build 11.0.20.1+1-post-Ubuntu-0ubuntu122.04, mixed mode, sharing)". The prompt "khaicntt4@khaicntt4-virtual-machine:~\$" is visible at the bottom.

```
khaicntt4@khaicntt4-virtual-machine:~$ java -version
openjdk version "11.0.20.1" 2023-08-24
OpenJDK Runtime Environment (build 11.0.20.1+1-post-Ubuntu-0ubuntu122.04)
OpenJDK 64-Bit Server VM (build 11.0.20.1+1-post-Ubuntu-0ubuntu122.04, mixed mode, sharing)
khaicntt4@khaicntt4-virtual-machine:~$
```

java cho ta thấy đây là bản 11

B2: Tiến hành cài đặt Apache Pig

A terminal window showing the command "wget https://downloads.apache.org/pig/pig-0.17.0/pig-0.17.0.tar.gz" being executed. The output shows the download progress: "--2023-11-29 02:05:47-- https://downloads.apache.org/pig/pig-0.17.0/pig-0.17.0.tar.gz", "Resolving downloads.apache.org (downloads.apache.org)... 135.181.214.104, 88.99.95.219, 2a01:4f9:3a:2c57::2, ...", "Connecting to downloads.apache.org (downloads.apache.org)|135.181.214.104|:443..", ". connected.", "HTTP request sent, awaiting response... 200 OK", "Length: 230606579 (220M) [application/x-gzip]", "Saving to: 'pig-0.17.0.tar.gz'", and a progress bar "pig-0.17.0.tar.gz 23%[==>] 51,48M 13,9MB/s eta 17s".

```
khaicntt4@khaicntt4-virtual-machine:~$ wget https://downloads.apache.org/pig/pig-0.17.0/pig-0.17.0.tar.gz
--2023-11-29 02:05:47-- https://downloads.apache.org/pig/pig-0.17.0/pig-0.17.0.tar.gz
Resolving downloads.apache.org (downloads.apache.org)... 135.181.214.104, 88.99.95.219, 2a01:4f9:3a:2c57::2, ...
Connecting to downloads.apache.org (downloads.apache.org)|135.181.214.104|:443..
. connected.
HTTP request sent, awaiting response... 200 OK
Length: 230606579 (220M) [application/x-gzip]
Saving to: 'pig-0.17.0.tar.gz'

pig-0.17.0.tar.gz 23%[==>] 51,48M 13,9MB/s eta 17s
```

B3: Giải nén files

`tar -xzf pig-0.17.0.tar.gz`

`sudo mv pig-0.17.0 /usr/local/pig`

B4: Thêm môi trường

```
Try: sudo apt install <deb name>
khaicntt4@khaicntt4-virtual-machine:~$ sudo mv pig-0.17.0 /usr/local/pig
mv: cannot stat 'pig-0.17.0': No such file or directory
khaicntt4@khaicntt4-virtual-machine:~$ echo 'export PIG_HOME=/usr/local/pig' >>
~/.bashrc
echo 'export PATH=$PATH:$PIG_HOME/bin' >> ~/.bashrc
echo 'export JAVA_HOME=/usr/lib/jvm/java-8-openjdk-amd64' >> ~/.bashrc

source ~/.bashrc
khaicntt4@khaicntt4-virtual-machine:~$
```

B5: Kiểm tra xem cài có thành công không

```
source ~/.bashrc
khaicntt4@khaicntt4-virtual-machine:~$ pig -version
Apache Pig version 0.17.0 (r1797386)
compiled Jun 02 2017, 15:41:58
khaicntt4@khaicntt4-virtual-machine:~$
```