Getting Started

To do the Blockchain training laboratory exercises, you need to install the necessary software and files.

Install Software

1. Download and install Git Bash.

   https://git-scm.com/downloads

2. Download and install NodeJS.

   https://nodejs.org/en/download/

   Note: Use the LTS version

   Installing Node.js will also install the NodeJS Package Manager (NPM).

3. Open a Git Bash terminal.

   In the succeeding steps, when you see the prompt below, it means that a command needs to be executed in the Git Bash terminal.

   ```
   >
   ```

4. Change the version of NPM.

   ```
   > npm install npm@5.6.0 -g
   ```

5. Download and install VSCode.

   https://code.visualstudio.com/download

6. Download and install Python.

   https://www.python.org/downloads/windows/

   Note: Use version 2.x.x

7. Download and install Docker Desktop.

   https://www.docker.com/products/docker-desktop

   Note: You may need to create a Docker ID to download the software.

8. Test the Docker Desktop installation

```
> docker version
> docker run hello-world
```

When you do the laboratory exercises later and you encounter the following error:

Mount C. This shared resource does not exist.

refer to the following link to fix the problem:

https://tomssl.com/2018/01/11/sharing-your-c-drive-with-docker-for-windows-when-using-azure-active-directory-azuread-aad/

9. Download and install Postman.

   https://www.getpostman.com/downloads/

10. Install the Hyperledger Fabric platform-specific binaries.

```
> mkdir -p /c/blockchain-training
> cd /c/blockchain-training
> curl -sSL http://bit.ly/2ysbOFE | bash -s -- 1.4.1 1.4.1 0.4.15
```

Setup the Git Environment

1. Run the following commands.

```
> git config --global core.autocrlf false
> git config --global core.longpaths true
```

2. Check the setting of these parameters with the following commands.

```
> git config --get core.autocrlf
> git config --get core.longpaths
```

Install Prerequisite NodeJS Packages

1. Install Visual Studio C++ Build Tools.

```
> npm install --global windows-build-tools
```

2. Install GRPC module.

```
> npm install --global grpc
```

Copy the Training Materials

1. Clone the blockchain tutorial

```
> cd /c/blockchain-training
> git clone https://github.com/pong-pantola/blockchain-tutorial.git
```

2. Clone the NoedJS tutorial

```
> cd /c/blockchain-training
> git clone https://github.com/pong-pantola/nodejs-tutorial.git
```