Microsoft Windows

1. Download GNAT Community Edition for Windows from:

https://www.adacore.com/download/more

2. Install GNAT Community Edition for all users.

3. After you have completed the GNAT installation, create a symbolic link pointing to the installation directory, using the **mklink** command:

a. Start an administrator command shell:

**Start Menu → Windows System → Command Prompt → Right Click
More → Run as administrator**

b. Then run the following commands, replacing **install_directory** with the path where you installed GNAT:

**mklink /j "C:\Program Files\GNAT" "install_directory"
exit**

OR

3. Set the value of the **GNAT** environment variable (e.g. **Control Panel → System → Advanced system settings → Environment Variables**) to the path (without spaces!) where you installed GNAT.

4. Clone the following **git** repositories into your home directory:

**git clone https://github.com/pmunts/libsimpleio.git
git clone http://git.munts.com/ada-remoteio-tutorial.git**

OR

4. Download http://git.munts.com/ada-remoteio-tutorial.zip and extract it into your home directory.

MacOS X

1. Install the X-Code command line tools from a terminal window:

`xcode-select –install`

2. Install the HIDAPI library:

`git clone https://github.com/signal11/hidapi.git`
`cd hidapi`
`./bootstrap`
`./configure`
`make`
`sudo make install`

3. Download GNAT Community Edition for MacOS X from:

https://www.adacore.com/download/more

4. Install GNAT Community Edition for all users.

5. After you have completed the GNAT installation, create a symbolic link pointing to the installation directory, using the **`ln`** command, replacing **`install_directory`** with the absolute path where you installed GNAT:

`sudo ln -s "install_directory" /usr/local/gnat`

6. Clone the following **`git`** repositories into your home directory:

`git clone https://github.com/pmunts/libsimpleio.git`
`git clone http://git.munts.com/ada-remoteio-tutorial.git`

Debian or Ubuntu Linux with Native GNAT Toolchain

1. Install the following packages:

sudo apt install build-essential git gnat gprbuild libhidapi-dev

2. Clone the following **git** repositories into your home directory:

git clone https://github.com/pmunts/libsimpleio.git
git clone http://git.munts.com/ada-remoteio-tutorial.git

Debian or Ubuntu Linux with GNAT Community Edition

1. Install the following Debian or Ubuntu packages:

```
sudo apt-get install build-essential git libhidapi-dev
```

2. Download GNAT Community Edition for Windows from:

https://www.adacore.com/download/more

3. Install GNAT Community Edition for all users.

4. After you have completed the GNAT installation, create a symbolic link pointing to the installation directory, using the **ln** command, replacing **install_directory** with the absolute path where you installed GNAT:

```
sudo ln -s "install_directory" /usr/local/gnat
```

5. Checkout the following git repositories:

```
git clone https://github.com/pmunts/libsimpleio.git
git clone http://git.munts.com/ada-remoteio-tutorial.git
```