

ROS melodic 설치 매뉴얼

WeGo & LIMO

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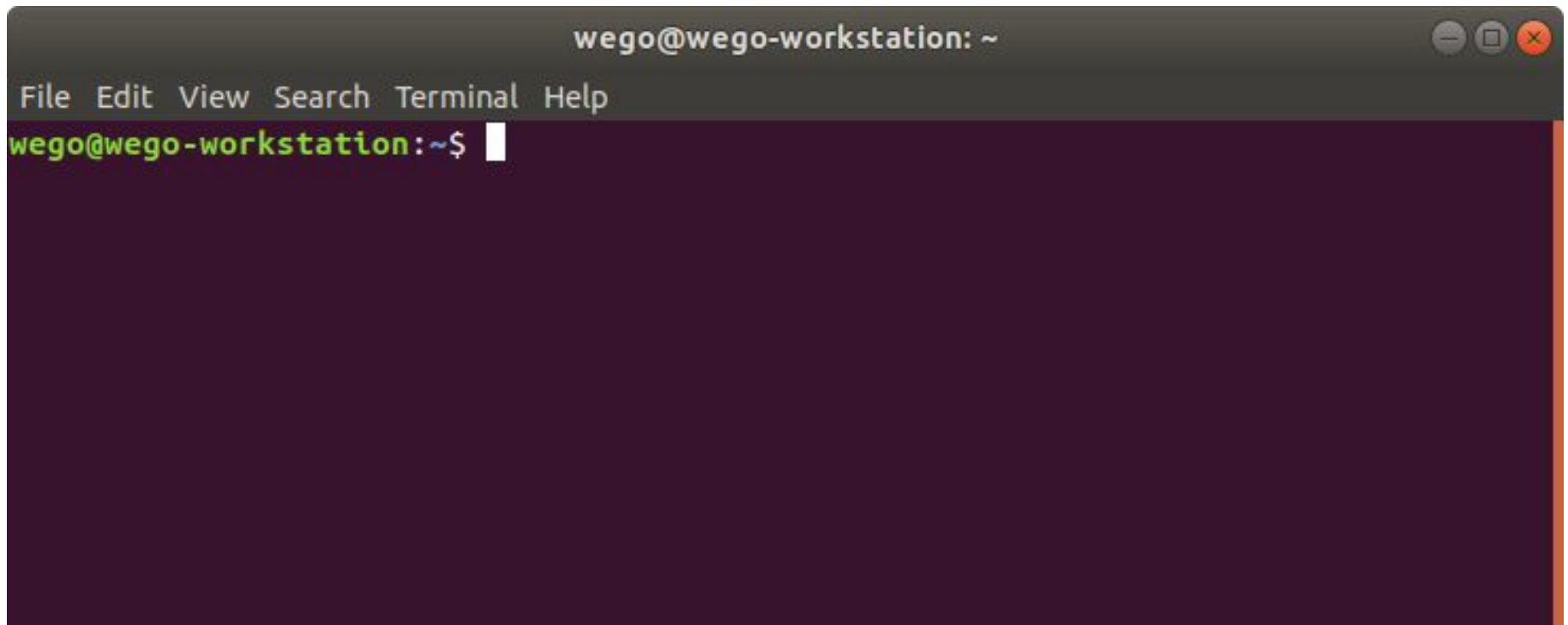
01 ROS melodic 설치

준비물

Ubuntu 18.04

01 ROS melodic 설치

Ubuntu 에서 Ctrl + Alt + T 을 눌러 터미널을 실행한다

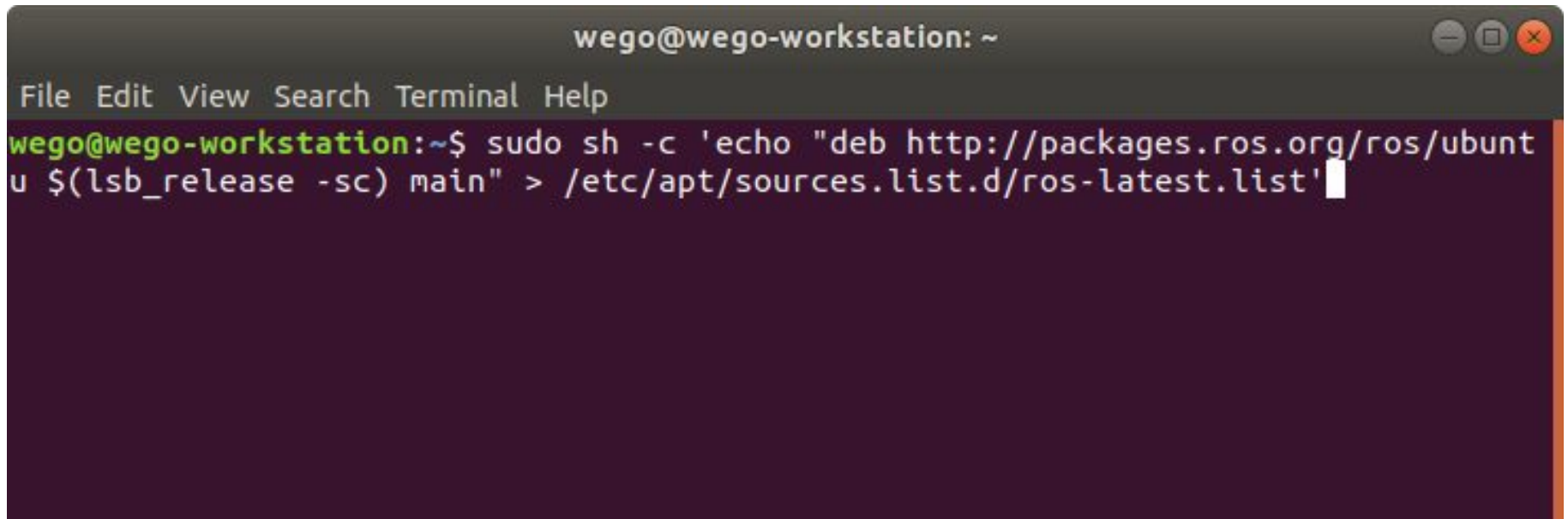
A screenshot of a terminal window titled 'wego@wego-workstation: ~'. The window has a dark gray title bar with standard Ubuntu window controls (minimize, maximize, close) on the right. Below the title bar is a menu bar with 'File', 'Edit', 'View', 'Search', 'Terminal', and 'Help'. The main area of the terminal is dark purple. The prompt 'wego@wego-workstation:~\$' is displayed in green text, followed by a white cursor. The terminal is currently empty, ready for input.

```
wego@wego-workstation: ~  
File Edit View Search Terminal Help  
wego@wego-workstation:~$
```

01 ROS melodic 설치

터미널 창에 다음 명령어 입력

```
sudo sh -c 'echo "deb http://packages.ros.org/ros/ubuntu $(lsb_release -sc) main"
> /etc/apt/sources.list.d/ros-latest.list'
```

A screenshot of a terminal window titled 'wego@wego-workstation: ~'. The window has a menu bar with 'File', 'Edit', 'View', 'Search', 'Terminal', and 'Help'. The terminal shows the command 'sudo sh -c 'echo "deb http://packages.ros.org/ros/ubuntu \$(lsb_release -sc) main" > /etc/apt/sources.list.d/ros-latest.list'' being entered. The prompt 'wego@wego-workstation:~\$' is visible before the command. The terminal background is dark purple, and the text is white. The window has standard Ubuntu window controls (minimize, maximize, close) in the top right corner.

```
wego@wego-workstation: ~
File Edit View Search Terminal Help
wego@wego-workstation:~$ sudo sh -c 'echo "deb http://packages.ros.org/ros/ubuntu $(lsb_release -sc) main" > /etc/apt/sources.list.d/ros-latest.list'
```

01 ROS melodic 설치

터미널 창에 다음 명령어 입력

```
sudo apt install curl
```

```
wego@wego-workstation: ~  
File Edit View Search Terminal Help  
wego@wego-workstation:~$ sudo sh -c 'echo "deb http://packages.ros.org/ros/ubuntu $(lsb_release -sc) main" > /etc/apt/sources.list.d/ros-latest.list'  
[sudo] password for wego:  
wego@wego-workstation:~$ sudo apt install curl
```

01 ROS melodic 설치

터미널 창에 다음 명령어 입력

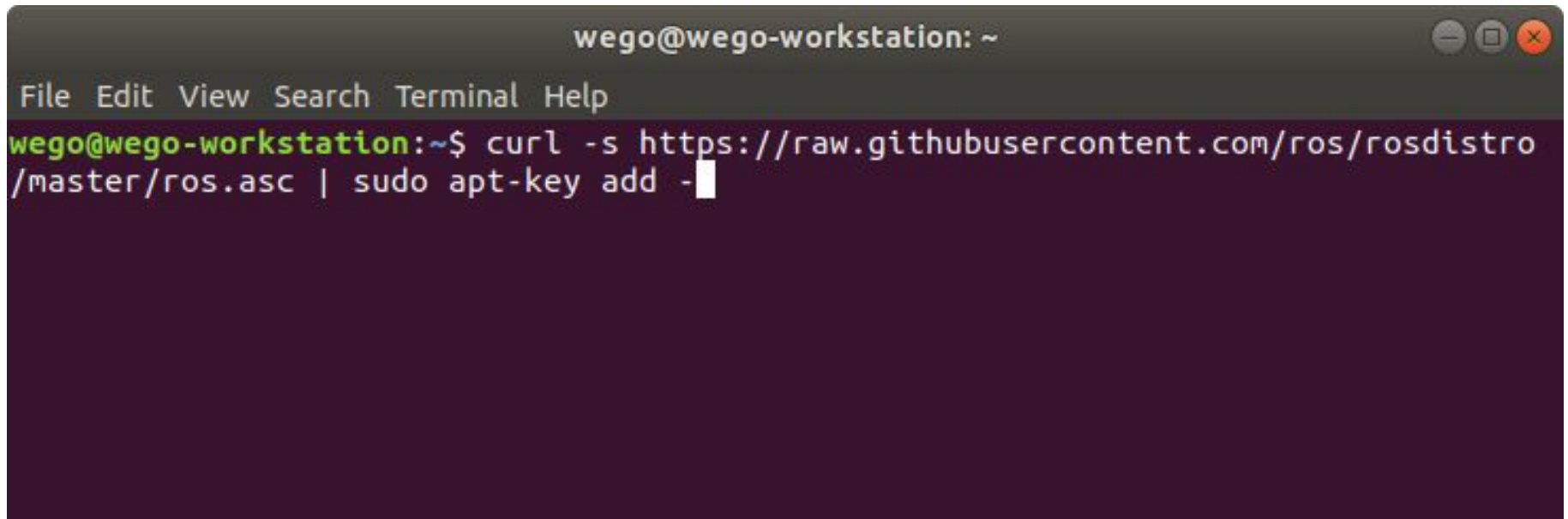
앞으로 설치 과정에서 나오는 [Y/n] 질문에는 y를 입력해주세요

```
wego@wego-workstation: ~  
File Edit View Search Terminal Help  
wego@wego-workstation:~$ sudo sh -c 'echo "deb http://packages.ros.org/ros/ubuntu $(lsb_release -sc) main" > /etc/apt/sources.list.d/ros-latest.list'  
[sudo] password for wego:  
wego@wego-workstation:~$ sudo apt install curl  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
The following additional packages will be installed:  
  libcurl4  
The following NEW packages will be installed:  
  curl libcurl4  
0 upgraded, 2 newly installed, 0 to remove and 4 not upgraded.  
Need to get 378 kB of archives.  
After this operation, 1,053 kB of additional disk space will be used.  
Do you want to continue? [Y/n] y
```


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터미널 창에 다음 명령어 입력

```
curl -s https://raw.githubusercontent.com/ros/rosdistro/master/ros.asc | sudo apt-key add -
```

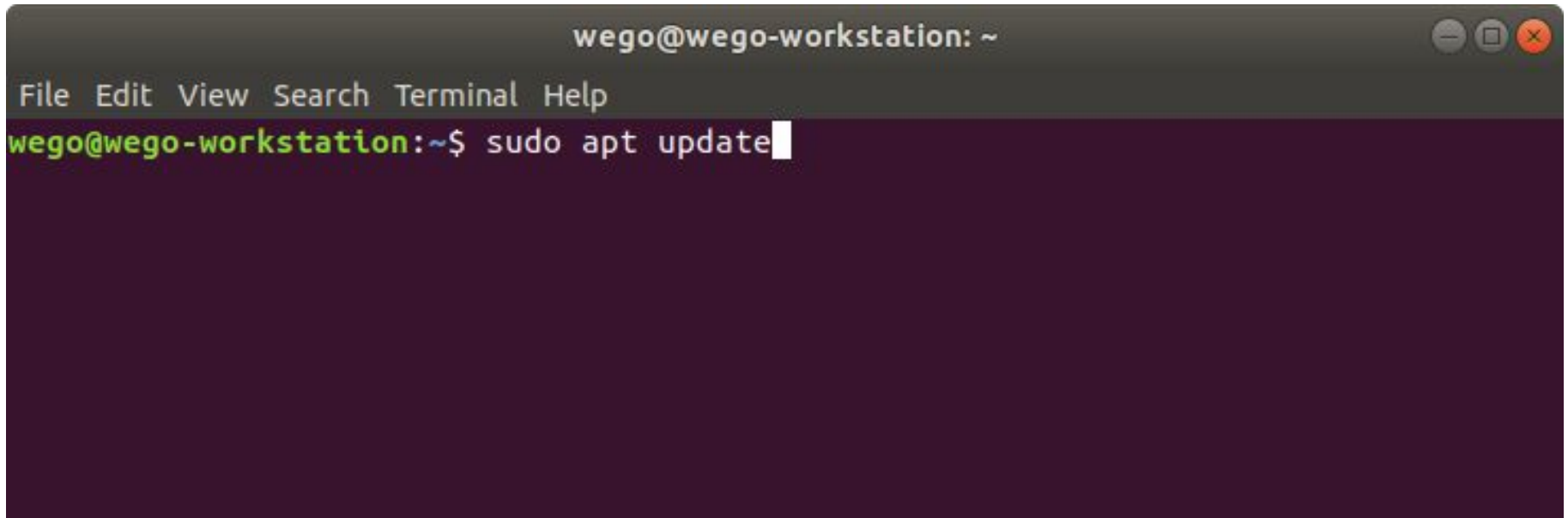
A screenshot of a terminal window titled 'wego@wego-workstation: ~'. The window has a menu bar with 'File', 'Edit', 'View', 'Search', 'Terminal', and 'Help'. The terminal prompt is 'wego@wego-workstation:~\$'. The command 'curl -s https://raw.githubusercontent.com/ros/rosdistro/master/ros.asc | sudo apt-key add -' is entered and partially executed, with a cursor at the end of the line.

```
wego@wego-workstation: ~  
File Edit View Search Terminal Help  
wego@wego-workstation:~$ curl -s https://raw.githubusercontent.com/ros/rosdistro  
/master/ros.asc | sudo apt-key add -
```

01 ROS melodic 설치

터미널 창에 다음 명령어 입력

```
sudo apt update
```

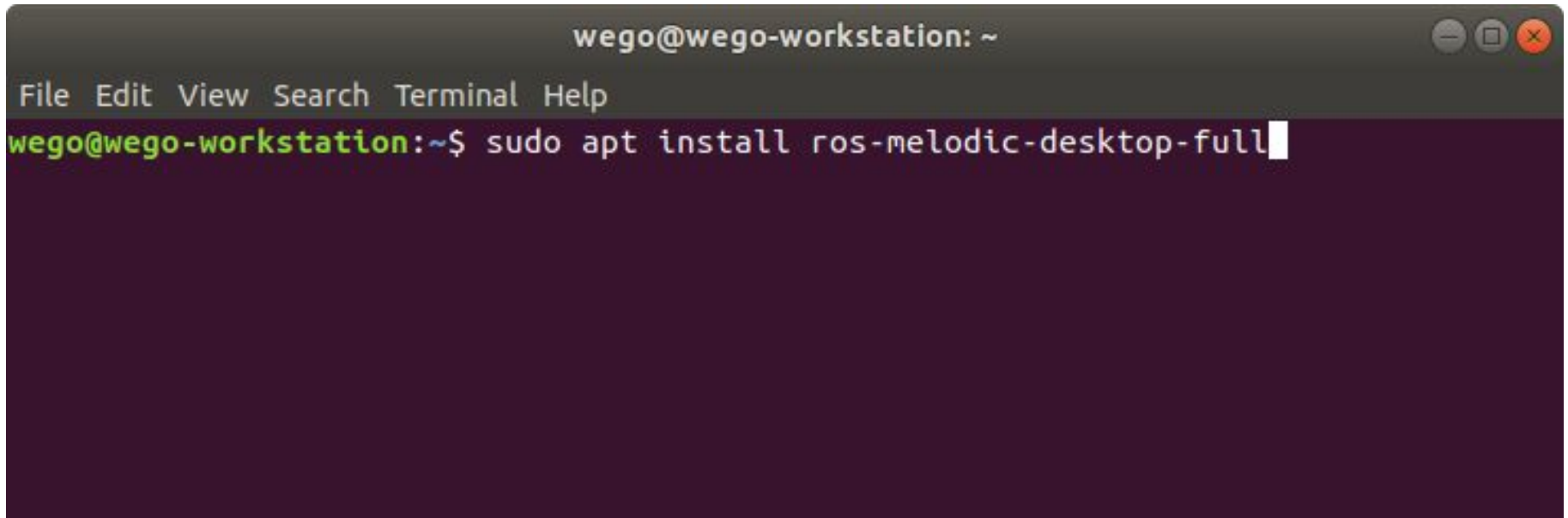
A screenshot of a terminal window titled 'wego@wego-workstation: ~'. The window has a menu bar with 'File', 'Edit', 'View', 'Search', 'Terminal', and 'Help'. The terminal prompt is 'wego@wego-workstation:~\$' and the command 'sudo apt update' is being entered, with a white cursor at the end of the line.

```
wego@wego-workstation: ~  
File Edit View Search Terminal Help  
wego@wego-workstation:~$ sudo apt update
```

01 ROS melodic 설치

터미널 창에 다음 명령어 입력

```
sudo apt install ros-melodic-desktop-full
```

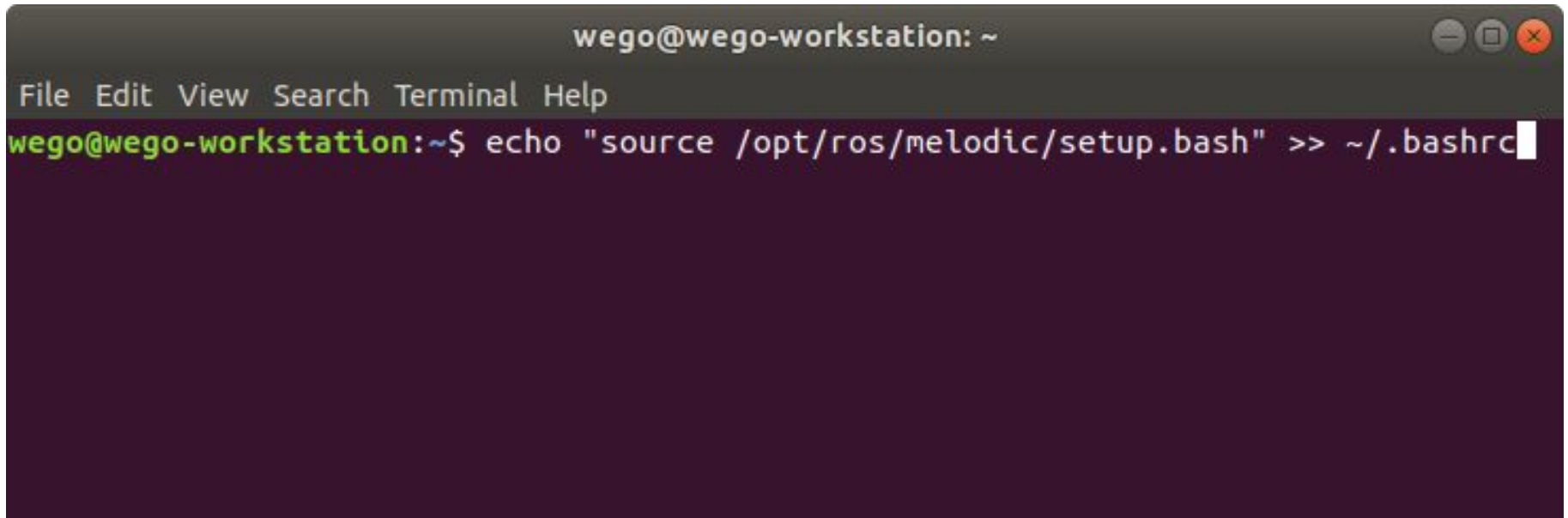
A screenshot of a terminal window titled 'wego@wego-workstation: ~'. The window has a menu bar with 'File', 'Edit', 'View', 'Search', 'Terminal', and 'Help'. The terminal prompt is 'wego@wego-workstation:~\$' and the command 'sudo apt install ros-melodic-desktop-full' is entered, with a cursor at the end of the line.

```
wego@wego-workstation: ~  
File Edit View Search Terminal Help  
wego@wego-workstation:~$ sudo apt install ros-melodic-desktop-full
```

01 ROS melodic 설치

터미널 창에 다음 명령어 입력

```
echo "source /opt/ros/melodic/setup.bash" >> ~/.bashrc
```

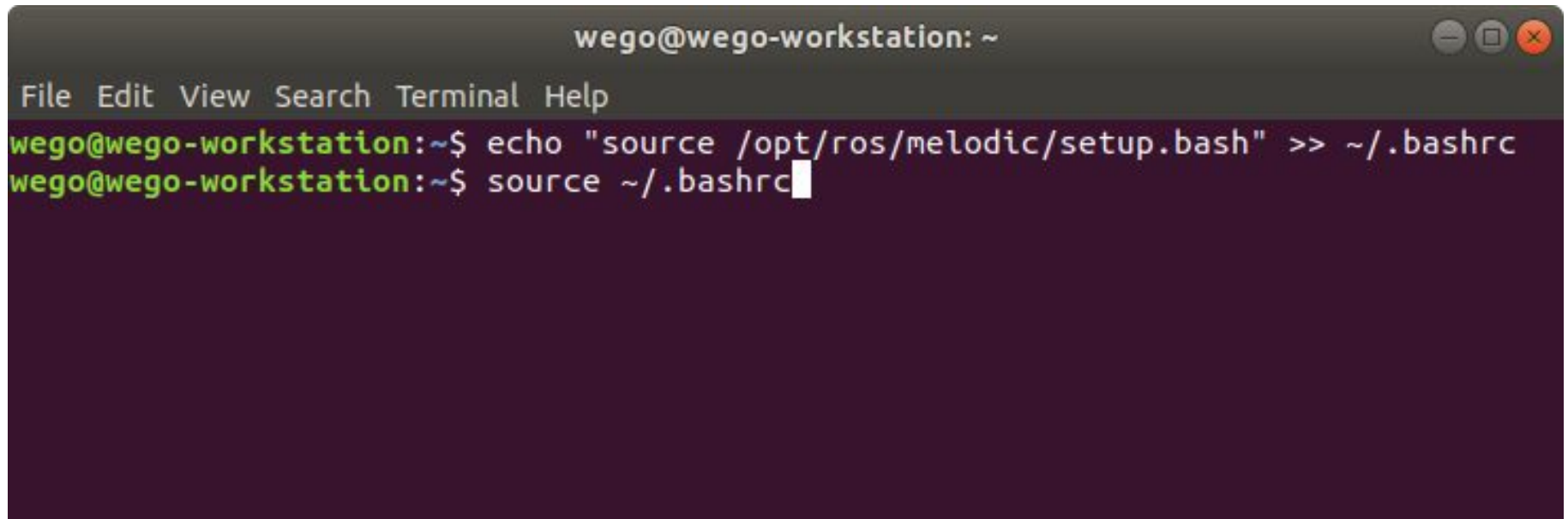
A screenshot of a terminal window titled 'wego@wego-workstation: ~'. The window has a menu bar with 'File', 'Edit', 'View', 'Search', 'Terminal', and 'Help'. The terminal text shows the command 'wego@wego-workstation:~\$ echo "source /opt/ros/melodic/setup.bash" >> ~/.bashrc' being entered, with a cursor at the end of the line.

```
wego@wego-workstation: ~  
File Edit View Search Terminal Help  
wego@wego-workstation:~$ echo "source /opt/ros/melodic/setup.bash" >> ~/.bashrc
```

01 ROS melodic 설치

터미널 창에 다음 명령어 입력

```
source ~/.bashrc
```

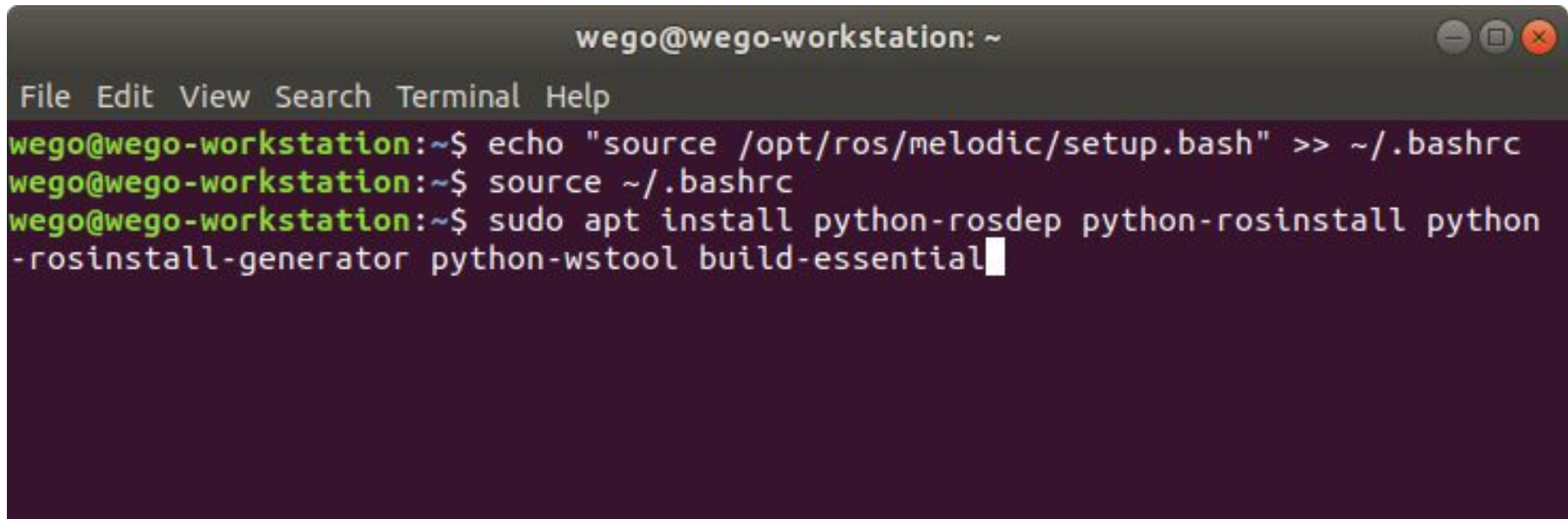
A terminal window titled 'wego@wego-workstation: ~' with standard window controls. The menu bar includes 'File', 'Edit', 'View', 'Search', 'Terminal', and 'Help'. The terminal shows two commands being entered: first, 'echo "source /opt/ros/melodic/setup.bash" >> ~/.bashrc' and second, 'source ~/.bashrc'. The prompt 'wego@wego-workstation:~\$' is visible before each command.

```
wego@wego-workstation: ~  
File Edit View Search Terminal Help  
wego@wego-workstation:~$ echo "source /opt/ros/melodic/setup.bash" >> ~/.bashrc  
wego@wego-workstation:~$ source ~/.bashrc
```

01 ROS melodic 설치

터미널 창에 다음 명령어 입력

```
sudo apt install python-rosdep python-rosinstall python-rosinstall-generator  
python-wstool build-essential
```

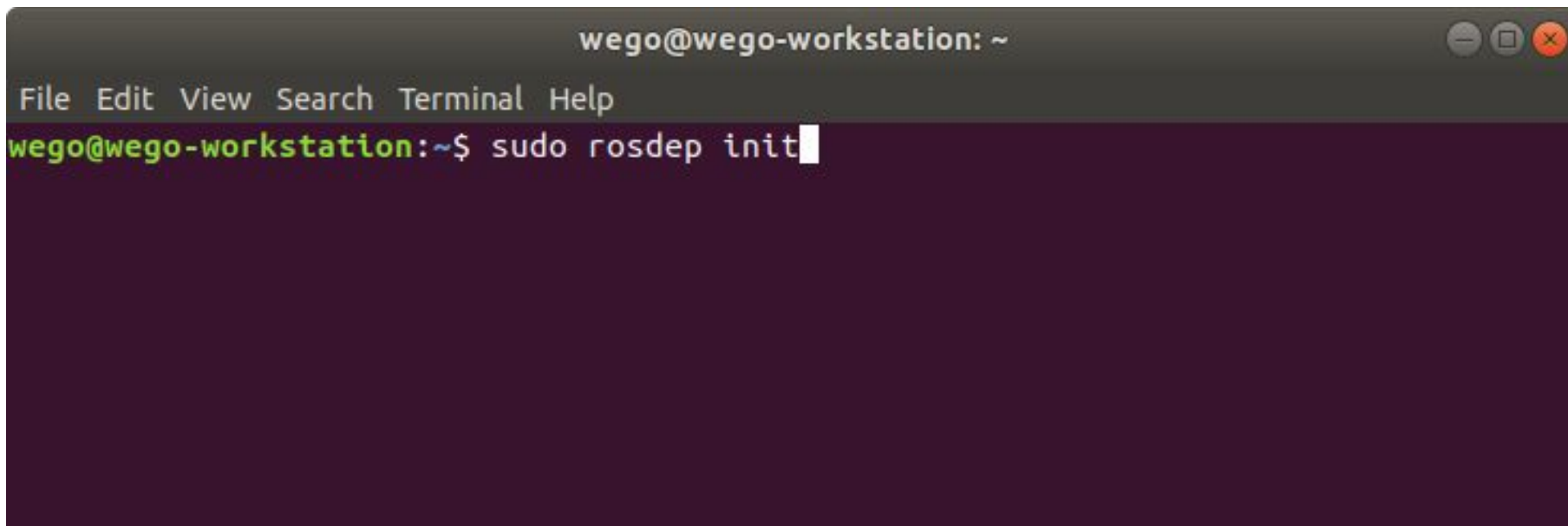
A terminal window titled 'wego@wego-workstation: ~' with standard window controls. The terminal shows a menu bar with 'File', 'Edit', 'View', 'Search', 'Terminal', and 'Help'. The command history includes: 1. 'wego@wego-workstation:~\$ echo "source /opt/ros/melodic/setup.bash" >> ~/.bashrc' 2. 'wego@wego-workstation:~\$ source ~/.bashrc' 3. 'wego@wego-workstation:~\$ sudo apt install python-rosdep python-rosinstall python-rosinstall-generator python-wstool build-essential' with a cursor at the end of the line.

```
wego@wego-workstation: ~  
File Edit View Search Terminal Help  
wego@wego-workstation:~$ echo "source /opt/ros/melodic/setup.bash" >> ~/.bashrc  
wego@wego-workstation:~$ source ~/.bashrc  
wego@wego-workstation:~$ sudo apt install python-rosdep python-rosinstall python-  
-rosinstall-generator python-wstool build-essential
```

01 ROS melodic 설치

터미널 창에 다음 명령어 입력

```
sudo rosdep init
```

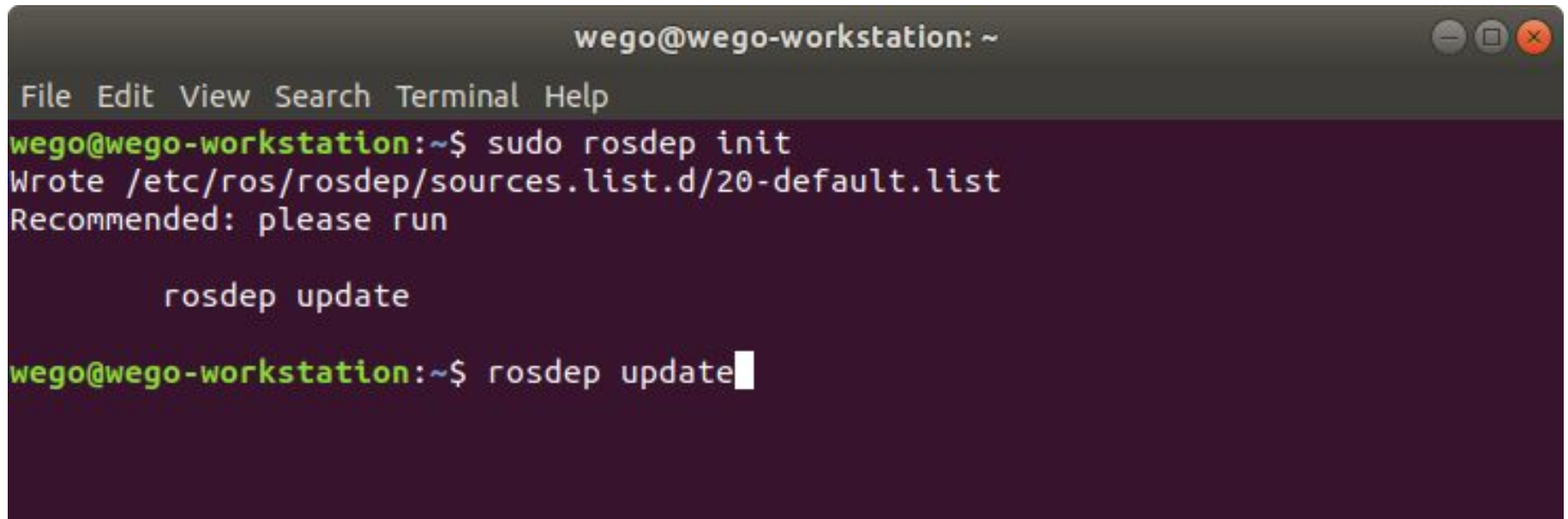
A screenshot of a terminal window titled 'wego@wego-workstation: ~'. The window has a menu bar with 'File', 'Edit', 'View', 'Search', 'Terminal', and 'Help'. The terminal prompt is 'wego@wego-workstation:~\$' and the command 'sudo rosdep init' is being entered, with a white cursor at the end of the line.

```
wego@wego-workstation: ~  
File Edit View Search Terminal Help  
wego@wego-workstation:~$ sudo rosdep init
```

01 ROS melodic 설치

터미널 창에 다음 명령어 입력

```
rosdep update
```

A terminal window titled 'wego@wego-workstation: ~' with standard window controls. The terminal shows the execution of 'sudo rosdep init', which outputs 'Wrote /etc/ros/rosdep/sources.list.d/20-default.list' and 'Recommended: please run'. Below this, the command 'rosdep update' is entered. At the bottom, the command 'wego@wego-workstation:~\$ rosdep update' is entered with a cursor at the end.

```
wego@wego-workstation: ~  
File Edit View Search Terminal Help  
wego@wego-workstation:~$ sudo rosdep init  
Wrote /etc/ros/rosdep/sources.list.d/20-default.list  
Recommended: please run  
  
rosdep update  
  
wego@wego-workstation:~$ rosdep update
```


01 ROS melodic 설치

터미널 창을 종료 후 다시 실행시킨 뒤, 다음 명령어 입력

roscore

```
roscore http://wego-workstation:11311/
File Edit View Search Terminal Help

wego@wego-workstation:~$ roscore
... logging to /home/wego/.ros/log/8c223ba4-a0ce-11ec-912b-f42679bcbb5f/roslaunc
h-wego-workstation-7467.log
Checking log directory for disk usage. This may take a while.
Press Ctrl-C to interrupt
Done checking log file disk usage. Usage is <1GB.

started roslaunch server http://wego-workstation:36537/
ros_comm version 1.14.12

SUMMARY
=====

PARAMETERS
* /rostdistro: melodic
* /rosversion: 1.14.12

NODES

auto-starting new master
process[master]: started with pid [7477]
ROS_MASTER_URI=http://wego-workstation:11311/

setting /run_id to 8c223ba4-a0ce-11ec-912b-f42679bcbb5f
process[rosout-1]: started with pid [7488]
started core service [/rosout]
```

roscore가 정상적으로 실행된다면 완료



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