

# Lesson-9 Instructions

## (MQTT Programming)

Some Notes:

1)

#### Whenever you set password, make sure not to use the user name and password  
#### that the instructor used, as they are public. Use your own secret password so that nobody else can access your system.

2)

#### The instructor runs sample python programs as follows:

**./mqtt\_publish-1.py**

#### He is running this on his computer which is a MacBook.  
#### And, he has set execute permissions on all these files. So, he can execute them.  
#### But, if you are copying the files from the resources of this lesson or from anywhere,  
#### it may not have execute permissions.  
#### Before you run the program check if the file has execute permissions by running  
#### the following command, if you are using MacBook or any Linux machines.

**ls -l <file name>**

####For examples,

```
ls -l mqtt_publish-1.py  
-rwxr-xr-x@ 1 viswa staff 545 2 Feb 16:51 mqtt_publish-1.py
```

#### The first few characters in that output shows permissions for user, group and others.  
## An x indicates execute permission. If execute permission does not exist for the user,  
#### change permission using the following command before executing the programming

**chmod 755 <file name>**

For example,

**chmod 755 mqtt\_publish-1.py**

3)

#### If you are using a Windows machine, you need to run these in Windows Powershell.  
#### And, you cannot run the command as done by the instructor.  
#### Instead, you have to run them as follows in a powershell window.

**python3 <file name>**

**Example:**

**python3 mqtt\_publish-1.py**

#### Note: Normally, the Windows computer may have python3 pre-installed.  
#### If your windows computer does not have python3 installed, you will have to install it.  
#### Search in Google for instructions to install python3 on a Windows computer.