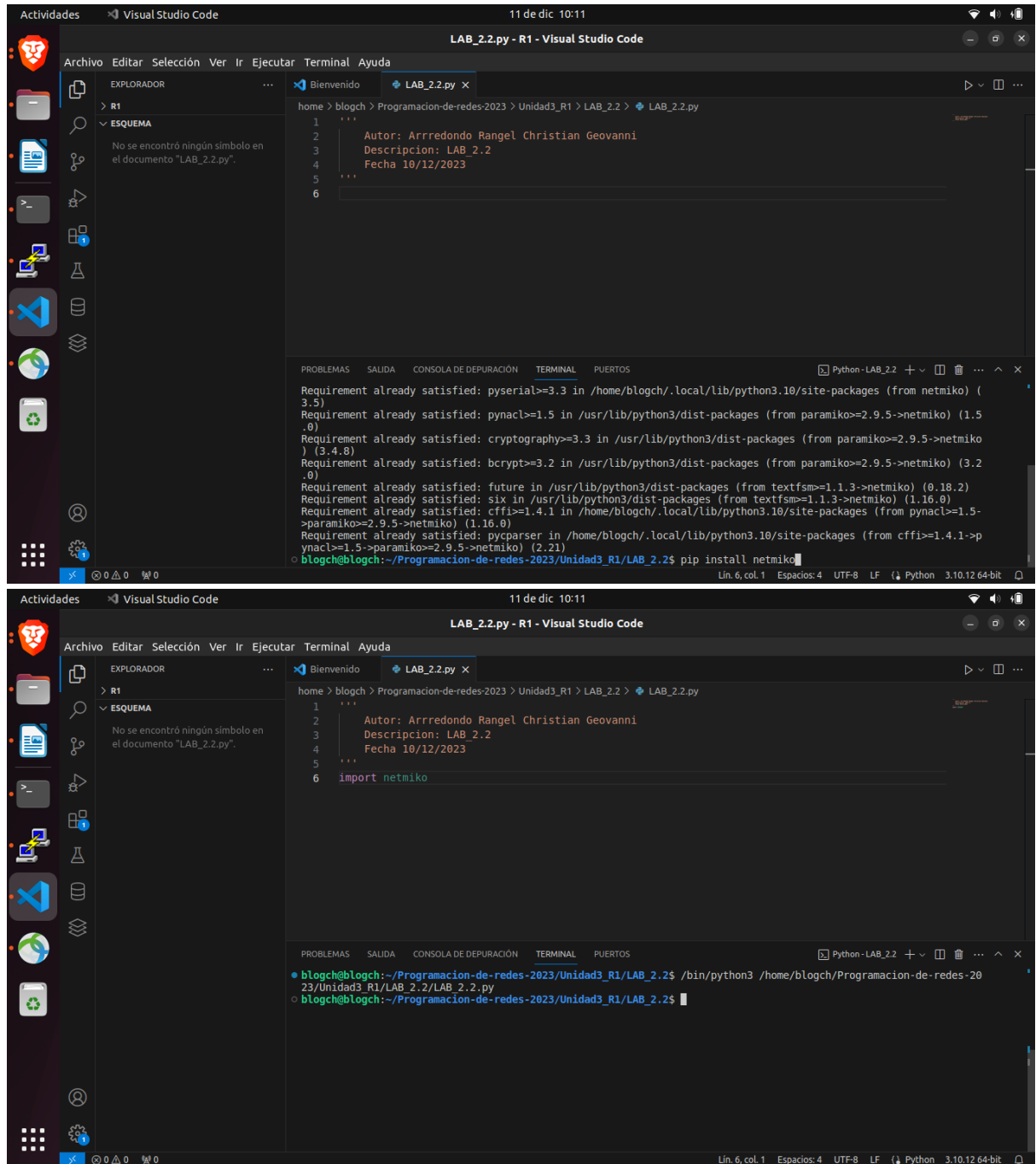


Arredondo Rangel Christian Geovanni 1222100691
LAB__2.2

1. Install the netmiko Python module



The image consists of two screenshots of the Visual Studio Code editor interface, showing the process of installing the netmiko module.

Top Screenshot: The editor is open to a file named `LAB_2.2.py`. The file content is as follows:

```
1  ...
2  Autor: Arredondo Rangel Christian Geovanni
3  Descripción: LAB 2.2
4  Fecha 10/12/2023
5  ...
6
```

The terminal window at the bottom shows the command `pip install netmiko` being executed. The output indicates that several dependencies are already satisfied:

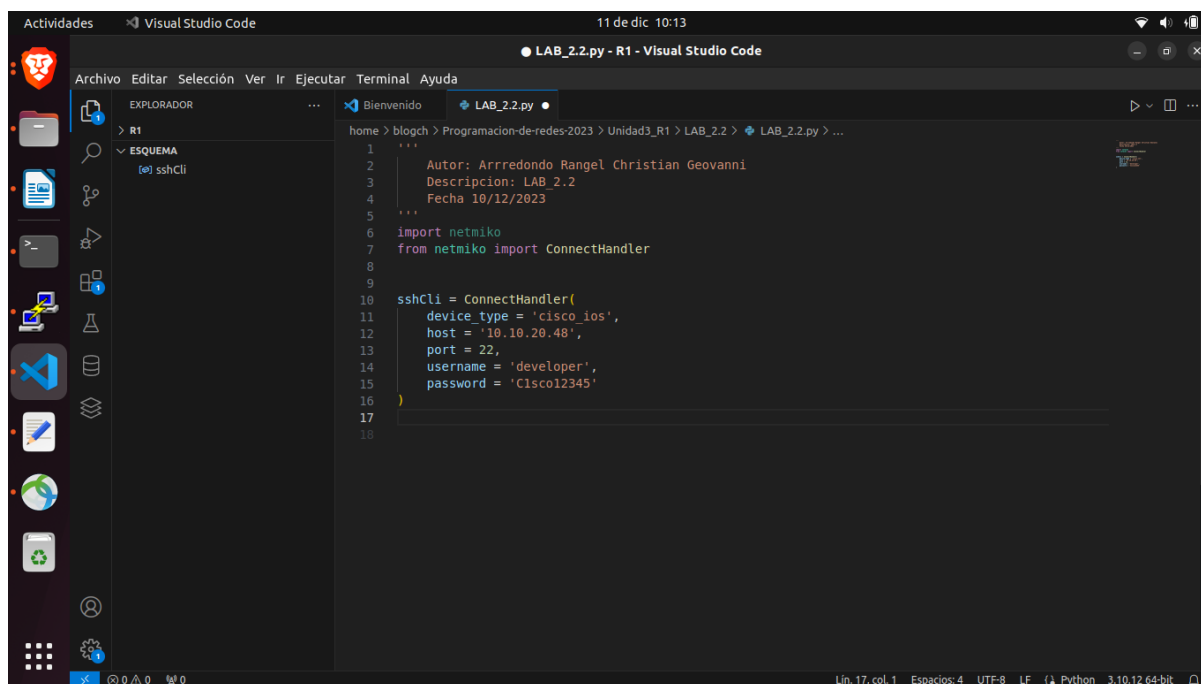
```
Requirement already satisfied: pyserial>=3.3 in /home/blogch/.local/lib/python3.10/site-packages (from netmiko) (3.5)
Requirement already satisfied: pynacl>=1.5 in /usr/lib/python3/dist-packages (from paramiko>=2.9.5->netmiko) (1.5.0)
Requirement already satisfied: cryptography>=3.3 in /usr/lib/python3/dist-packages (from paramiko>=2.9.5->netmiko) (3.2.0)
Requirement already satisfied: future in /usr/lib/python3/dist-packages (from textfsm>=1.1.3->netmiko) (0.18.2)
Requirement already satisfied: six in /usr/lib/python3/dist-packages (from textfsm>=1.1.3->netmiko) (1.16.0)
Requirement already satisfied: cffi>=1.4.1 in /home/blogch/.local/lib/python3.10/site-packages (from pynacl>=1.5->paramiko>=2.9.5->netmiko) (1.16.0)
Requirement already satisfied: pyparser in /home/blogch/.local/lib/python3.10/site-packages (from cffi>=1.4.1->pynacl>=1.5->paramiko>=2.9.5->netmiko) (2.21)
blogch@blogch:~/Programacion-de-redes-2023/Unidad3_R1/LAB_2.2$ pip install netmiko
```

Bottom Screenshot: The editor is open to the same file `LAB_2.2.py`. The file content is now:

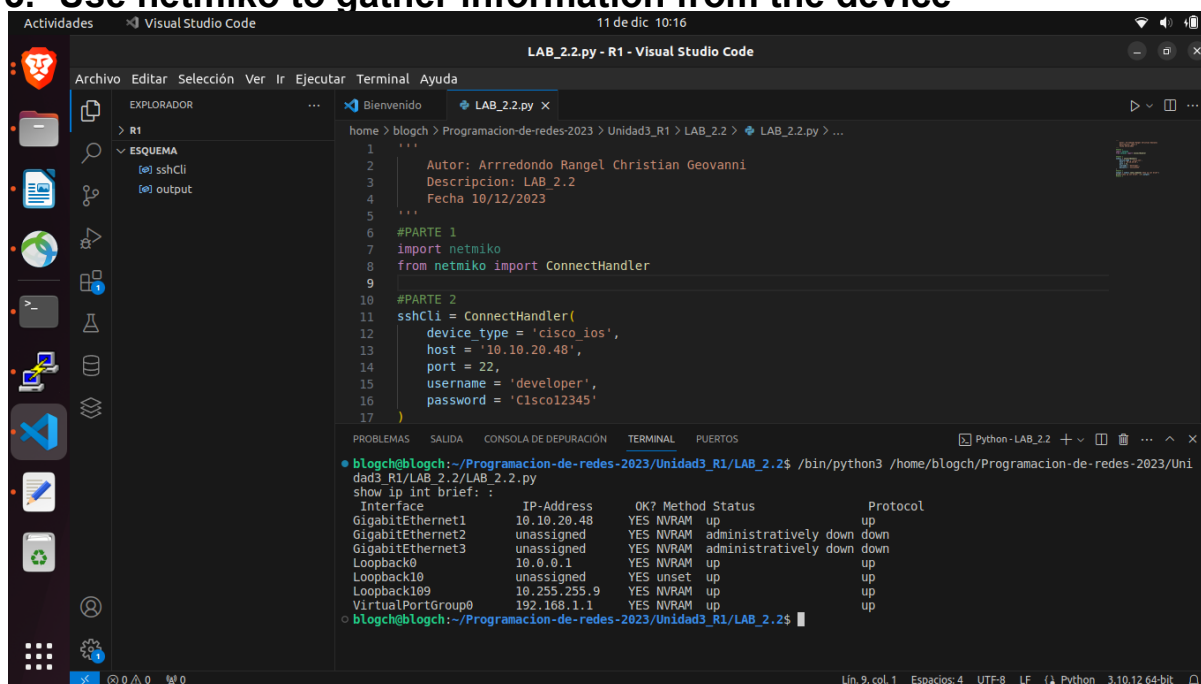
```
1  ...
2  Autor: Arredondo Rangel Christian Geovanni
3  Descripción: LAB 2.2
4  Fecha 10/12/2023
5  ...
6  import netmiko
```

The terminal window at the bottom shows the command `/bin/python3 /home/blogch/Programacion-de-redes-2023/Unidad3_R1/LAB_2.2/LAB_2.2.py` being executed.

2.-Connect to IOS XE's SSH service using netmiko



3.- Use netmiko to gather information from the device



4.- Use netmiko to alter configuration on the device

¿Se creó correctamente la nueva interfaz loopback2?

No, generar un conflicto con las interfaces loopback 1 y 2 por lo que no crea ninguna nueva interfaz hasta que se cambie a una ip diferente a las demás interfaces existentes.