Name: Ravi Jamanbhai Makwana

Roll no: 21BCP418

Div-6, G-12

Advance Python Programming

Assignment-2 [Subprocess]

Assignment: Create subprocess script where you use echo to print the name:rollnumber and second process of getting ip address from the terminal then pipe both the operation using Popen(), first should be the input of second command and close the communication of first process. take the output of the second process and log the data into log file.

Code:

```
import subprocess
import logging

# Configure logging
logging.basicConfig(filename="D:\\COLLEGE\\Python
Lab\\Practice\\Subprocess\\output.log", filemode="w",
level=logging.INFO, format="%(asctime)s - %(levelname)s -
%(message)s")

# Run the first command using Popen and capture the output
name_roll_number = "Ravi:418"
first_process = subprocess.Popen(["echo", name_roll_number],
stdout=subprocess.PIPE, text=True, shell=True)

# Run the second command to get the IP address using nslookup, using
the output of the first process as input
second_process = subprocess.Popen(["nslookup"], stdin=subprocess.PIPE,
stdout=subprocess.PIPE, stderr=subprocess.PIPE, text=True, shell=True)
ip_output, ip_errors =
second_process.communicate(input=name_roll_number)

# Close the communication of the first process
first_process.stdout.close()
```

```
# Log the data using the logging library
logging.info("Name and Roll Number: %s", name_roll_number)
logging.info("IP Address Output:\n%s", ip_output)
logging.info("IP Address Errors:\n%s", ip_errors)
```

Output [log file screenshot]: