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**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]:**

