**7. IP**

import socket  
import os  
  
os.chdir('C://Users//kamil//Desktop')  
os.system(f'cmd /c "ipconfig /all > ip.txt"') #zapisanie w pliku ip.txt informacji  
  
with open('C://Users//kamil//Desktop//ip.txt', 'r', encoding='ANSI') as ip\_file:  
 content = ip\_file.readlines()  
print(content)  
  
for i in content:  
 if 'Host Name' in i:  
 host\_name = i[39:-1]  
print(f'\nHost Name odczytany z pliku to: {host\_name}')  
  
for i in content:  
 if '(Preferred)' in i:  
 ip\_address = i[39:-13]  
print(f'Adress IP odczytany z pliku to: {ip\_address}\n')  
  
#2ga metoda z użyciem biblioteki socket  
hostname = socket.gethostname() #zapis nazwy hosta  
local\_ip = socket.gethostbyname(hostname) #zapis adresu IP  
print(f'Hostname otrzymany dzięki bibliotece "socket" to: {hostname}')  
print(f'Adres IP otrzymany dzięki bibliotece "socket" to: {local\_ip}')