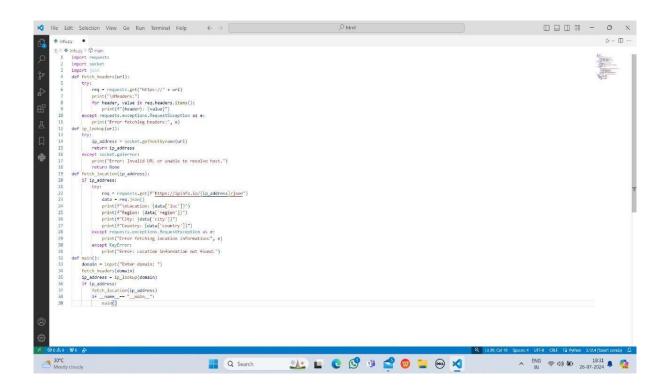
SOURCE PROGRAM

```
import requests import
socket import ison def
fetch headers(url):
  try:
     req = requests.get("https://" + url)
     print("\nHeaders:") for header, value in
     req.headers.items():
       print(f"{header}: {value}")
  except requests.exceptions.RequestException as e:
     print("Error fetching headers:", e)
def ip lookup(url): try:
     ip address = socket.gethostbyname(url) return
     ip address
  except socket.gaierror:
     print("Error: Invalid URL or unable to resolve host.") return
     None
def fetch location(ip address):
  if ip address: try:
       req = requests.get(f"https://ipinfo.io/{ip address}/json")
       data = req.json() print(f"\nLocation: {data['loc']}")
       print(f"Region: {data['region']}") print(f"City:
        {data['city']}") print(f"Country: {data['country']}")
     except requests.exceptions.RequestException as e:
       print("Error fetching location information:", e)
     except KeyError:
       print("Error: Location information not found.")
def main(): domain = input("Enter domain: ")
fetch headers(domain) ip address = ip lookup(domain)
if ip_address:
     fetch location(ip address)
if name == " main ":
  main()
```

SCREENSHOTS OF INFORMATION GATHERING TOOL:



OUTPUT:

