Report on

Joy of Programming using Python

Submitted for Summer Internship Program

By

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Project-11: Website block

Q1: - “Python Website Blocker” When we surf the internet, many unwanted websites keep showing up. You can build a program that blocks certain websites from opening. This program is beneficial for students who want to study without any social media distractions.

SOLUTION : -

Every system have **host** file whether it is Mac, Windows or Linux.

HOSTFILE IN WINDOWS :

C:\Windows\System32\drivers\etc\hosts

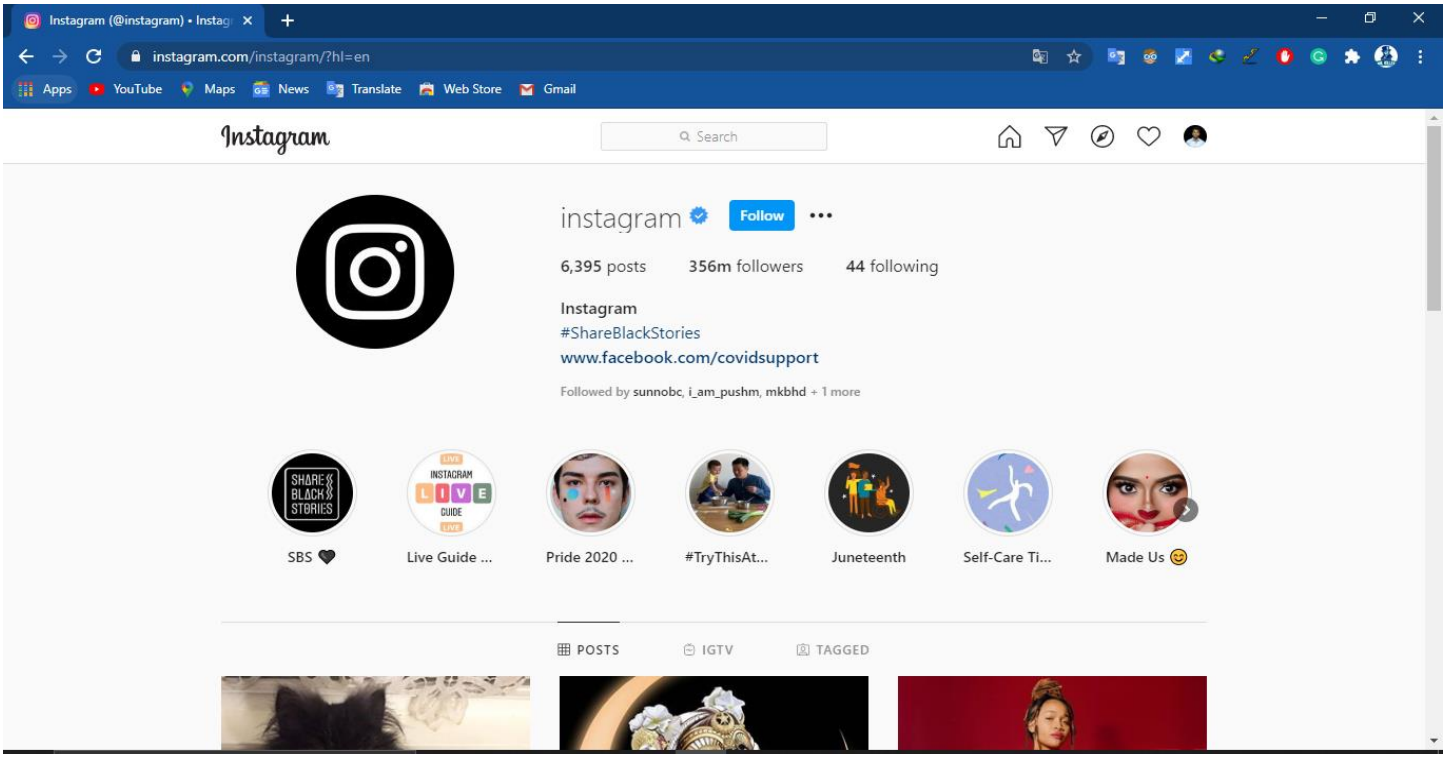
Working of host file: Host is an operating system file which maps hostnames to IP addresses. In this program we will be mapping hostnames of websites to our localhost address. Using python file handling manipulation we will write the hostname in hosts.txt and remove the lines after your working hours.

HOSTFILE IN WINDOWS :

```
# Copyright (c) 1993-2009 Microsoft Corp.
#
# This is a sample HOSTS file used by Microsoft TCP/IP for Windows.
#
# This file contains the mappings of IP addresses to host names. Each
# entry should be kept on an individual line. The IP address should
# be placed in the first column followed by the corresponding host name.
# The IP address and the host name should be separated by at least one
# space.
#
# Additionally, comments (such as these) may be inserted on individual
# lines or following the machine name denoted by a '#' symbol.
#
# For example:
#
#      102.54.94.97     rhino.acme.com          # source server
#       38.25.63.10     x.acme.com              # x client host

# localhost name resolution is handled within DNS itself.
#       127.0.0.1       localhost
#       ::1             localhost
```

Before running this code website working properly :



CODE IN PYTHON :-

```
localhost = "127.0.0.1"
host_path = "C:\Windows\System32\drivers\etc\hosts"
website = ["www.facebook.com","www.instagram.com","www.youtube.com"]
with open(host_path,"r+") as f:
    x = f.read()
    for item in website:
        if x.__contains__(item):
            pass
        else:
            f.write("\n"+localhost+" "+item)
print("All done")
```

AFTER RUNNING THE CODE :-

```
PROBLEMS    OUTPUT    TERMINAL    DEBUG CONSOLE

mrabh@DESKTOP-28UDOQK MINGW64 /e/vscode/python
$ python website_block.py
All done
```

CHANGE IN HOSTFILE :

```
# Copyright (c) 1993-2009 Microsoft Corp.
#
# This is a sample HOSTS file used by Microsoft TCP/IP for Windows.
#
# This file contains the mappings of IP addresses to host names. Each
# entry should be kept on an individual line. The IP address should
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# For example:
#
#      102.54.94.97     rhino.acme.com          # source server
#       38.25.63.10     x.acme.com              # x client host

# localhost name resolution is handled within DNS itself.
#       127.0.0.1       localhost
#       ::1             localhost


127.0.0.1 www.facebook.com
127.0.0.1 www.instagram.com
127.0.0.1 www.youtube.com
```
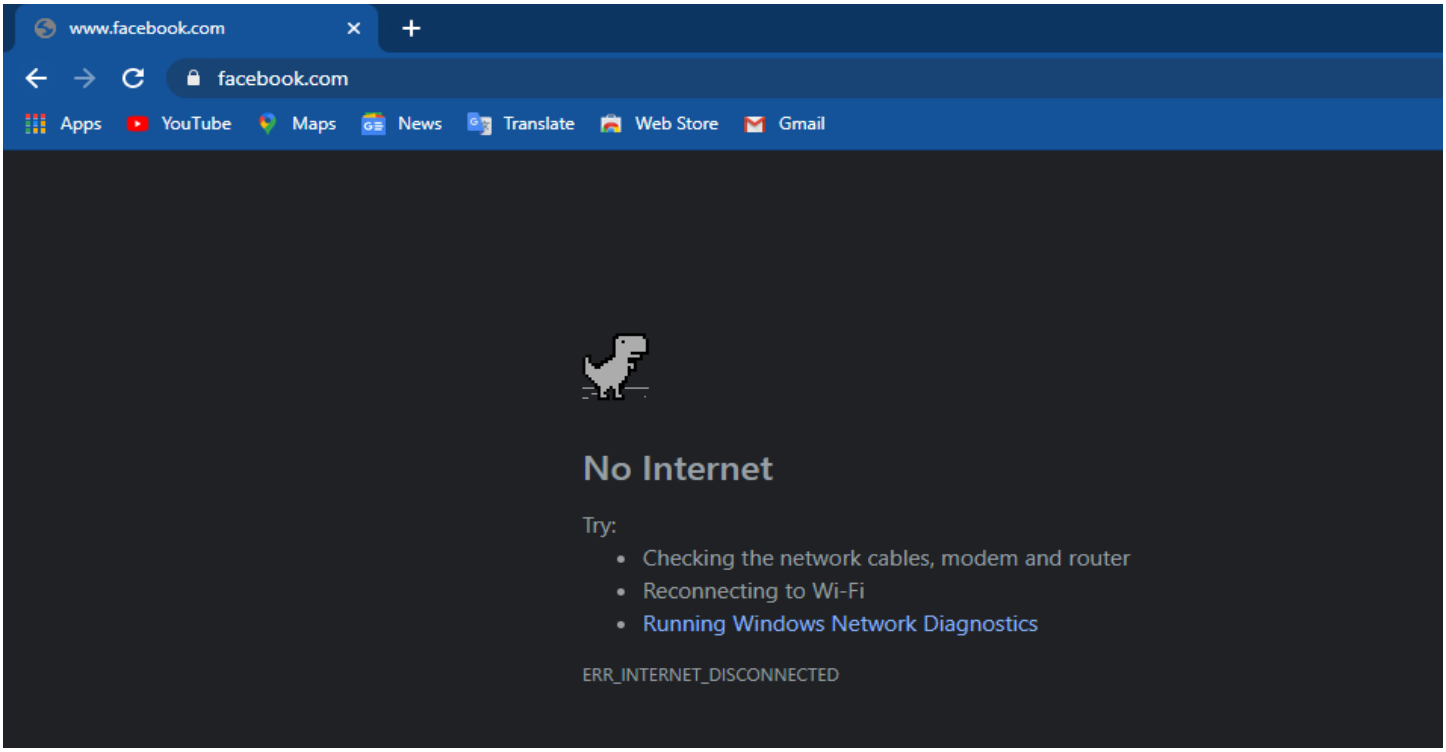

IN BROWSER :

Facebook is not running.



Same with Instagram.