

MICRO PROJECT PYTHON

Program

```
import ctypes
import sys
import os

def isAdmin():
    try:
        return ctypes.windll.shell32.IsUserAnAdmin()
    except:
        return False

def blockIt(website):

    try:

        f = open("C:\\Windows\\System32\\drivers\\etc\\hosts", 'a+')

        f.seek(0)
        contents = f.read()

        if(website in contents):
            print("Website Already Blocked!")
        else:
            local_host = "127.0.0.1"
            f.write("\n")

            if('www' in website):
                domain = website.replace('www.', '')
                f.write(local_host + " " + website + "\n")
                f.write(local_host + " " + domain + "\n")
            else:
                f.write(local_host + " " + website + "\n")
                f.write(local_host + " www." + website + "\n")

            print("Blocked")

        f.close()
        return True
    except:
        return False

def unblockIt(website):

    try:

        f = open("C:\\Windows\\System32\\drivers\\etc\\hosts", "r+")
        content = f.read()
        f.close()

        if website in content:
            elem = content.split("\n")
            newElem = []
```

```

        for line in elem:
            if(website not in line):
                newElem.append(line)

        finalContent = "\n".join(newElem)

        f = open("C:\\Windows\\System32\\drivers\\etc\\hosts", "w+")
        f.write(finalContent)
        f.close()

        print("Website Unblocked Successfully\n")
    else:
        print("website is not in blocked list\n")

    return True

except:
    return False

def main():

    if(not isAdmin()):
        print("Access Denied, Asking for permission")
        ctypes.windll.shell32.ShellExecuteW(None, "runas", sys.executable,
__file__, None, 1)

    else:
        print("Website Blocker:\n\n")
        print("Enter a choice to continue:\n")
        choice = input("Block (1) / Unblock (2) ? : ")

        if(choice == '1'):
            web = input("Enter a website link to Block: ")

            if(not blockIt(web)):
                print("Error in blocking the website!")
                print("Please try again after some time.....")

        elif(choice == '2'):
            web = input("Enter a website link to Unblock: ")

            if(not unblockIt(web)):
                print("Error in Unblocking the website!")
                print("Please try again after some time.....")

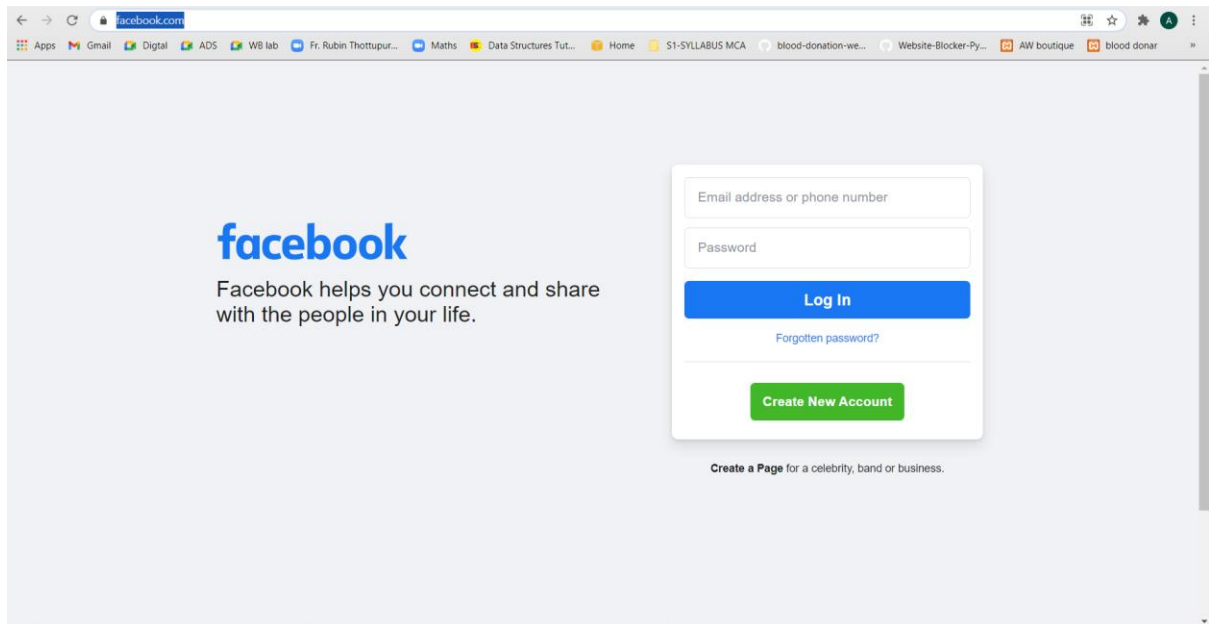
        else:
            print("Wrong Choice!")
            print("Better Luck Next Time")

    os.system("pause")

if(__name__ == '__main__'):
    main()

```

Output




```
C:\Users\USER\AppData\Local\Programs\Python\Python39\python.exe
Website Blocker:

Enter a choice to continue:

Block (1) / Unblock (2) ? : 1
Enter a website link to Block: facebook
Blocked
Press any key to continue . . .
```

← → ↻ Not secure | facebook.com/campaign/landing.php?campaign_id=1653993517&extra_1=src[318504236042]e[facebook]&placement=&creative=318504236042&keyword=facebook&partner_id=googl... ☆ ⚙️ 👤


Apps Gmail Digital ADS WB lab Fr. Rubin Thottupur... Maths Data Structures Tut... Home S1-SYLLABUS MCA blood-donation-we... Website-Blocker-Py... AW boutique blood donar



Your connection is not private

Attackers might be trying to steal your information from **www.facebook.com** (for example, passwords, messages, or credit cards). [Learn more](#)

NET::ERR_CERT_AUTHORITY_INVALID

 To get Chrome's highest level of security, [turn on enhanced protection](#)

Hide advanced

Reload

www.facebook.com normally uses encryption to protect your information. When Google Chrome tried to connect to www.facebook.com this time, the website sent back unusual and incorrect credentials. This may happen when an attacker is trying to pretend to be www.facebook.com, or a Wi-Fi sign-in screen has interrupted the connection. Your information is still secure because Google Chrome stopped the connection before any data was exchanged.

You cannot visit www.facebook.com right now because the website uses HSTS. Network errors and attacks are usually temporary, so this page will probably work later.