Report on

Joy of Programming using Python

Submitted for Summer Internship Project

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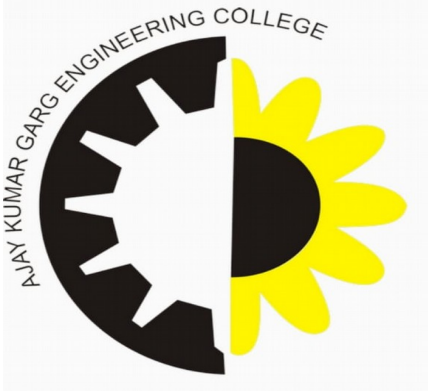

AJAY KUMAR GARG ENGINEERING COLLEGE
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INDEX

Project: PYTHON WEBSITE BLOCKER

Abstract: In present day scenario, Distractions are more than the motivations. They are also an obstacle to online education. Students who are taking online classes, are more exposed to distractions than in-person classes. This is a situation which affects their adacemics as well as mental health. So in order to reduce those disturbances, we need some methods or program which acts as a blocker so that everyone who is using internet can mind his/her business peacefully. These codes will help us in the long run.
Methodology is very simple as soon as the user enters details, it will start removing advertisements and recommended websites.
Conclusion to that one can focus on one's work.

Input format:

The first line of input is a conditional statement.

Output format:

The user-defined websites will be blocked.

Example:

Input:

1. choose 1 or 2.
2. Enter username.

3. Enter password.
4. Enter websites that you want to be blocked.

Output:

1. 1
2. Abhinav
3. Assassin
4. www.pubgm.com

Access granted

SOLUTION:-

Code:-

```
import os
import time
from datetime import datetime as dt
#Windows host file path
hostsPath=r"C:\Windows\System32\drivers\etc\hosts"
redirect="127.0.0.1"
#Add the website you want to block, in this list
print("Please enter the appropriate option")
print("1.New user")
print("2.Existing user")
choice=int(input())
if(choice== 1):
    user=input("Please enter the username \n")
    password=input("enter password \n")
    User=user+".txt"

    with open(User, 'w+') as web:
        web.write(password)
        web.write(" ")
        websites=input("Please enter the sites to be blocked")
        websites=websites.split(" ")
        for site in websites:
            web.write(site)
            web.write(" ")
    while True:

        if dt(dt.now().year,dt.now().month,dt.now().day,9) < dt.now() < dt(dt.now().year,dt.now().month,dt.now().day,18):
            print("Sorry Not Allowed...")
            file=open(hostsPath,'r+')
            content=file.read()
            for site in websites:
                if site in content:
```

if (choice== 1) › with open(User, 'w+') as web › for site in websites

```
            for site in websites:
                if site in content:
                    pass
                else:
                    file.write(redirect+" "+site+"\n")
        else:
            file=open(hostsPath,'r+')
            content=file.readlines()
            file.seek(0)
            for line in content:
                if not any(site in line for site in websites):
                    file.write(line)
                    file.truncate()
            print("Allowed access!")
        time.sleep(5)
else:
    user=input("Please enter the username")
    password=input("Please enter the password")
    User = user + ".txt"
    print("Password entered is ",password)
    password = user + password
    password1=user
    with open(User,"r+") as web:
        b=web.read()
        for i in b:
            if(i==" "or i=="\n"):
                break
            password1 = password1 + i
        websites=[]
        if(password1==password):
            l=len(password)
            web.seek(l)
```

if (choice== 1) › with open(User, 'w+') as web › for site in websites

```
            l=len(password)
            web.seek(l)
            web=open(User,"r+")
            b=web.read()
            webSites=b
            webSites=webSites.split(" ")
            for i in websites:
                websites.append(i)
            while True:
                # Duration during which, website blocker will work
                if dt(dt.now().year, dt.now().month, dt.now().day, 9) < dt.now() < dt(dt.now().year, dt.now().month,
                                                                                     dt.now().day, 18):
                    print("Sorry Not Allowed...")
                    file = open(hostsPath, 'r+')
                    content = file.read()
                    for site in websites:
                        if site in content:
                            pass
                        else:
                            file.write(redirect + " " + site + "\n")
                else:
                    file = open(hostsPath, 'r+')
                    content = file.readlines()
                    file.seek(0)
                    for line in content:
                        if not any(site in line for site in websites):
                            file.write(line)
                            file.truncate()
                    print("Allowed access!")
                time.sleep(5)
        else:
            print("Incorrect password \n")
```

if (choice== 1) › with open(User, 'w+') as web › for site in websites

```
            if dt(dt.now().year, dt.now().month, dt.now().day, 9) < dt.now() < dt(dt.now().year, dt.now().month,
                                                                                 dt.now().day, 18):
                print("Sorry Not Allowed...")
                file = open(hostsPath, 'r+')
                content = file.read()
                for site in websites:
                    if site in content:
                        pass
                    else:
                        file.write(redirect + " " + site + "\n")
            else:
                file = open(hostsPath, 'r+')
                content = file.readlines()
                file.seek(0)
                for line in content:
                    if not any(site in line for site in websites):
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                        file.truncate()
                    print("Allowed access!")
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    else:
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```
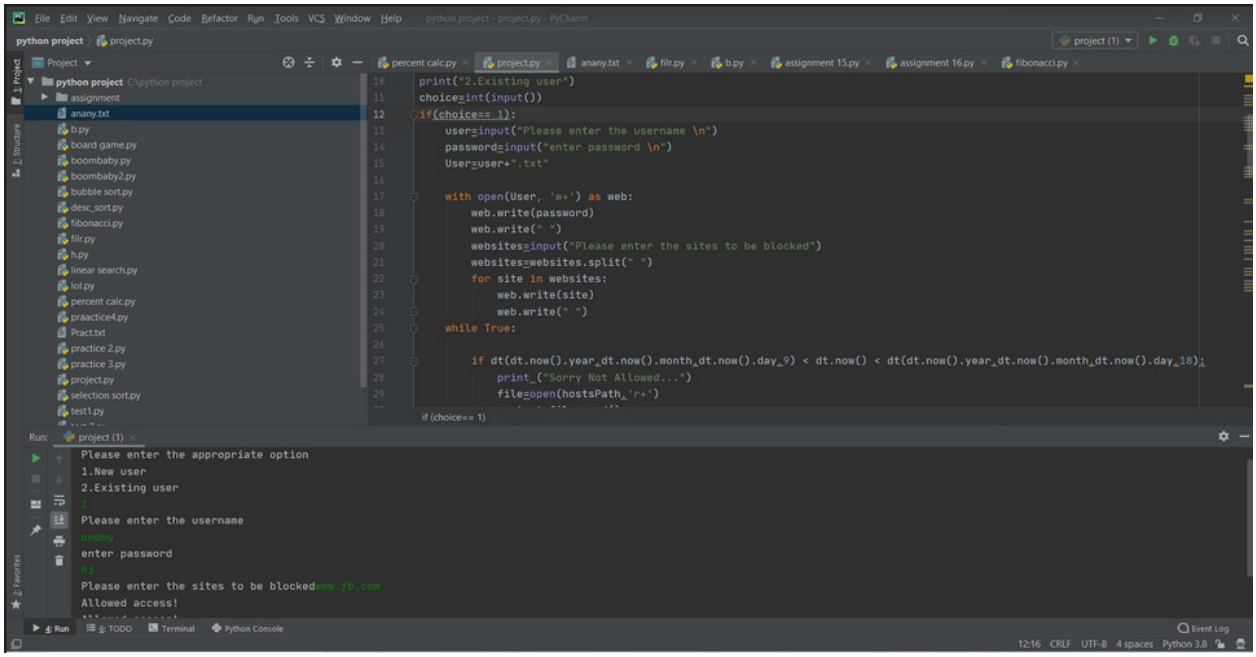

if (choice== 1) › with open(User, 'w+') as web › for site in websites

Test Case 1:-



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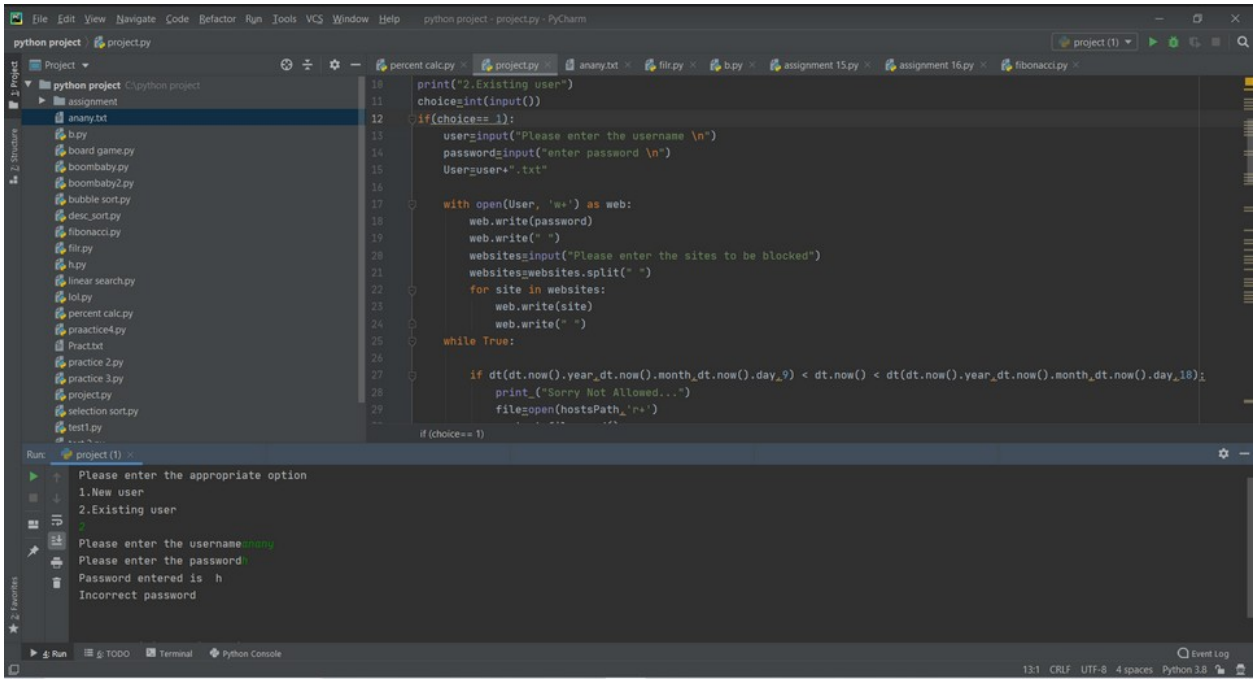

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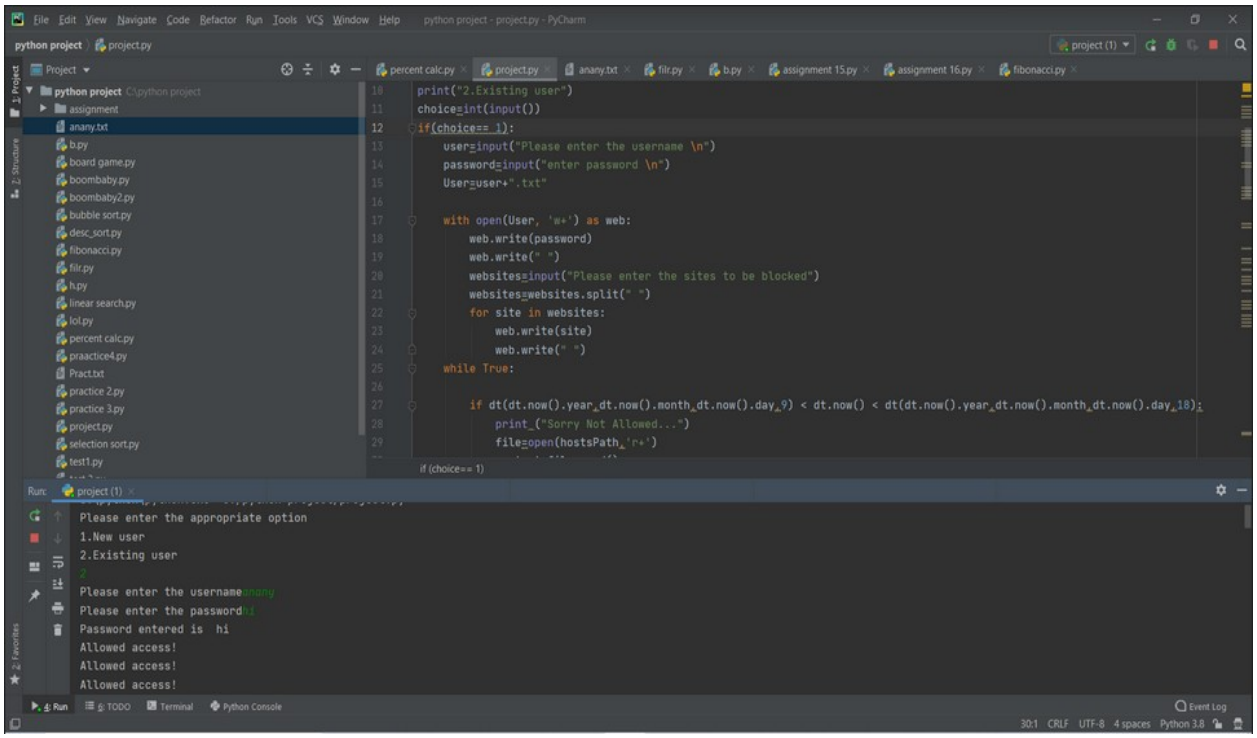

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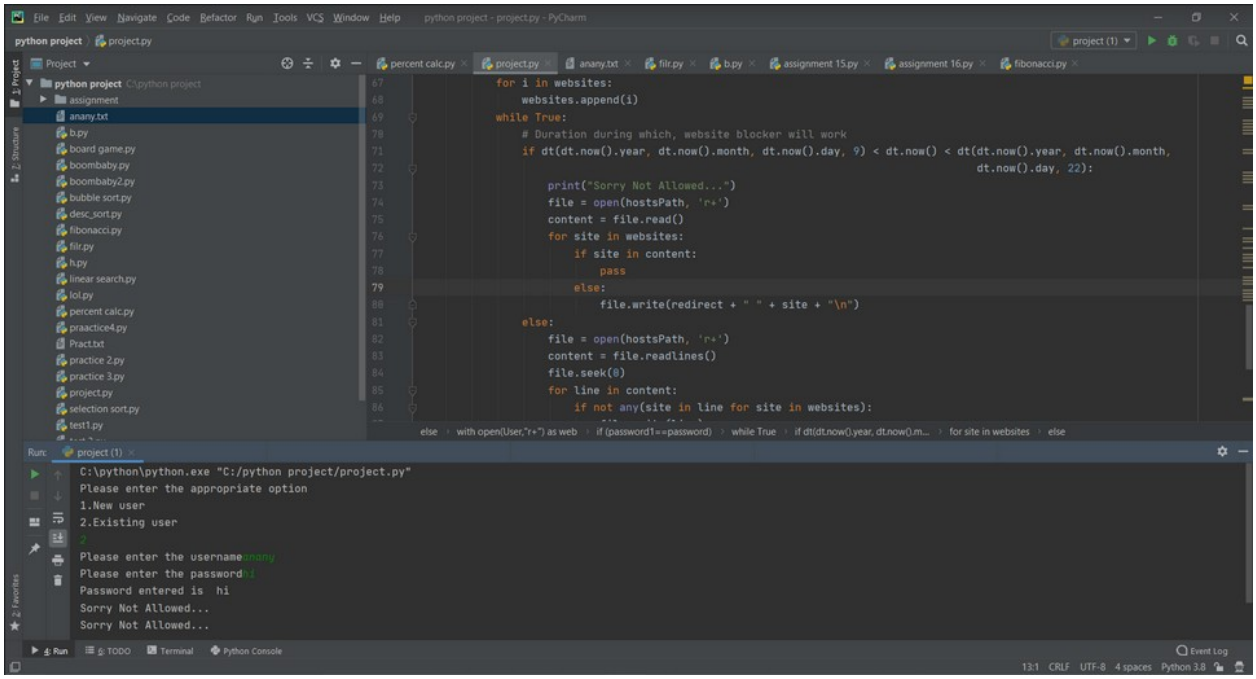

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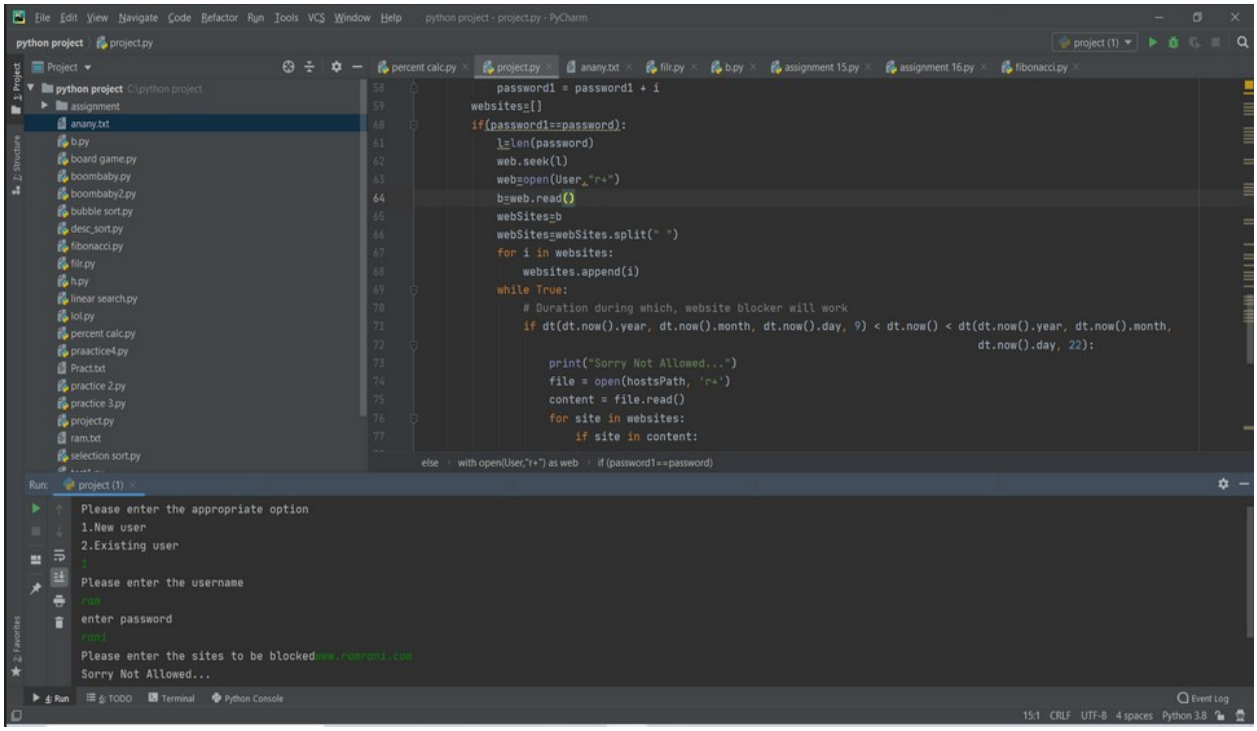
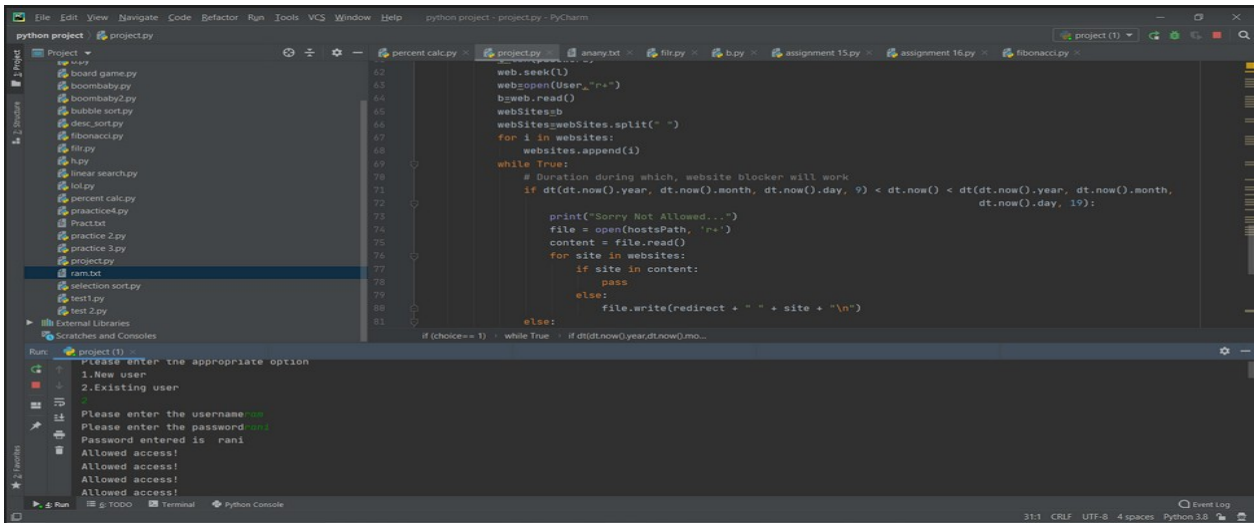


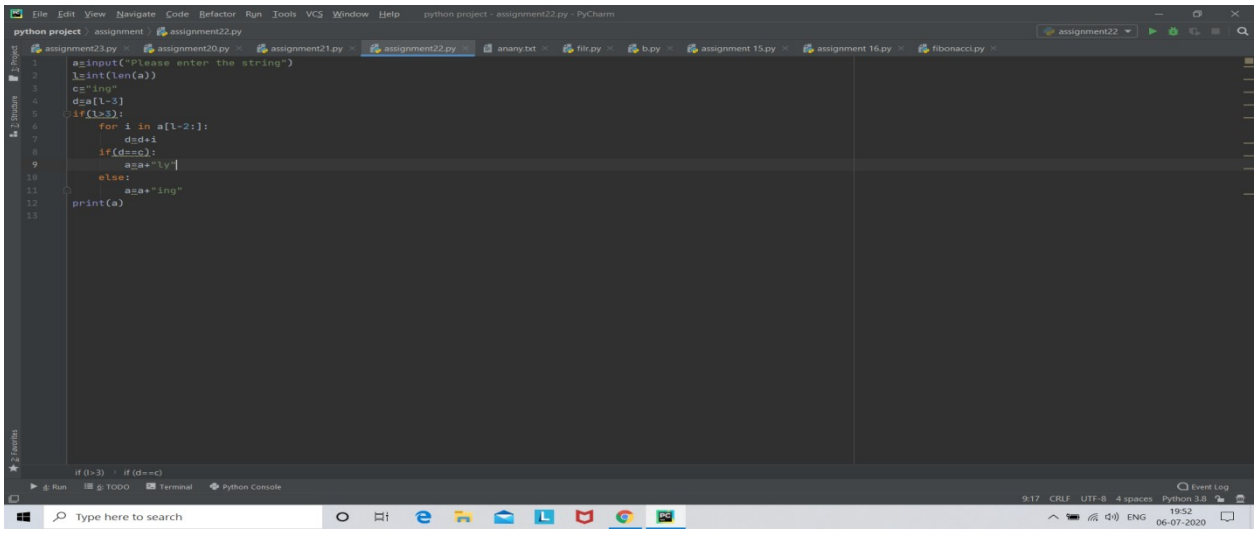
Test Case 6:



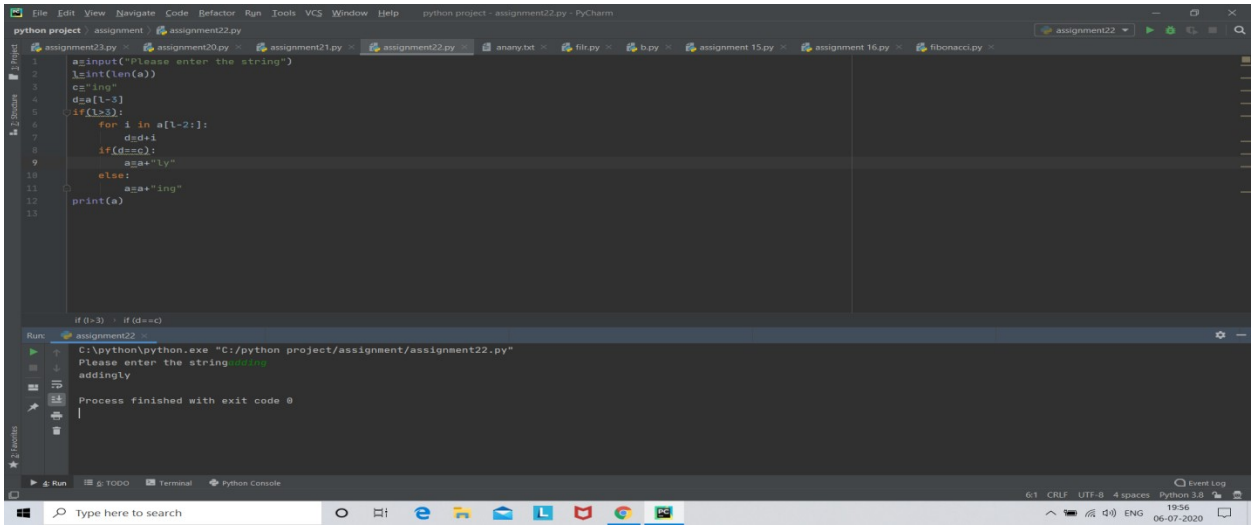
Assignment – 22

Que: Write a Python Program to add ‘ing’ at the end of a given string (length should be at least 3). If the given string already ends with ‘ing’ then add ‘iy’ instead. If the string length of the given is less than 3,leave it unchanged.

Code:



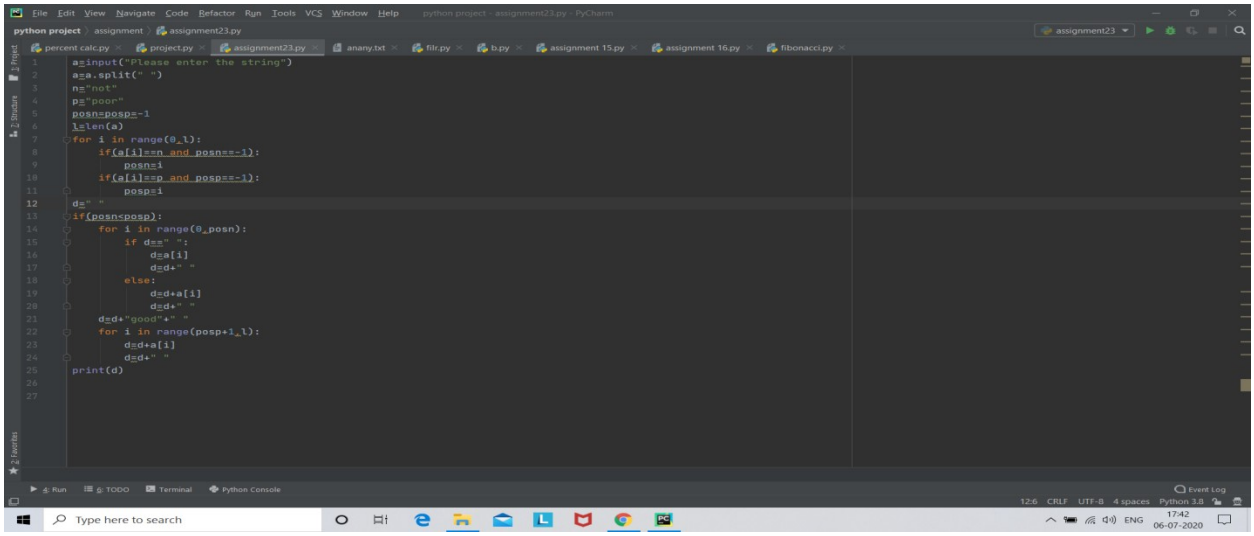
Test Case:



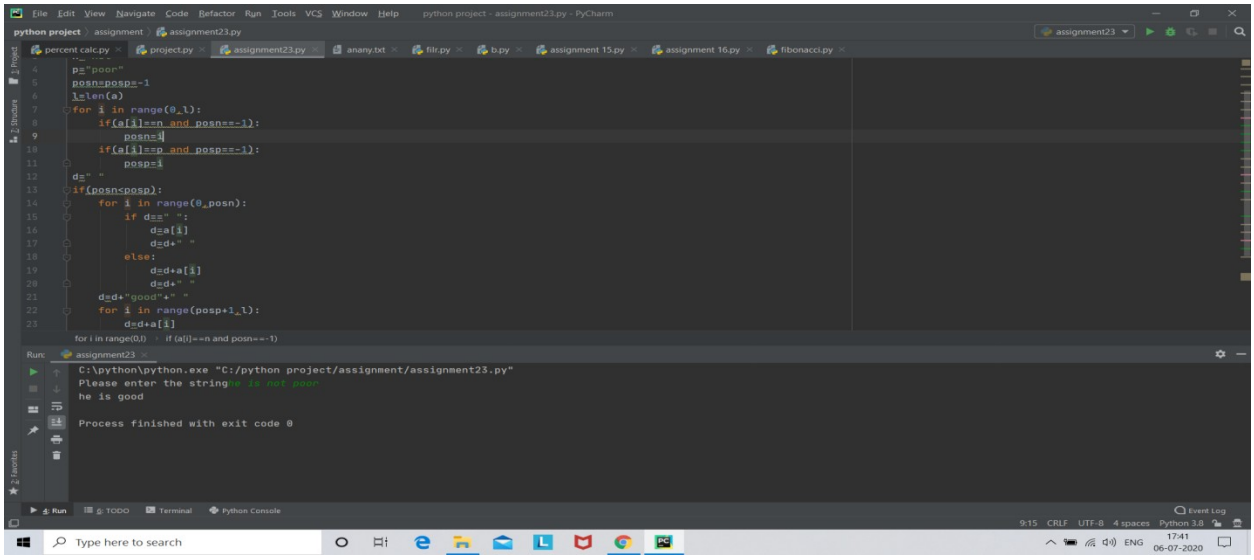
Assignment – 23

Que: Write a Python Program to find the first appearance of the substring ‘not’ and ‘poor’ from a given string,if ‘not’ follows the ‘poor’, replace the whole ‘not’…‘poor’ substring with ‘good’. Return the resulting string.

Code:



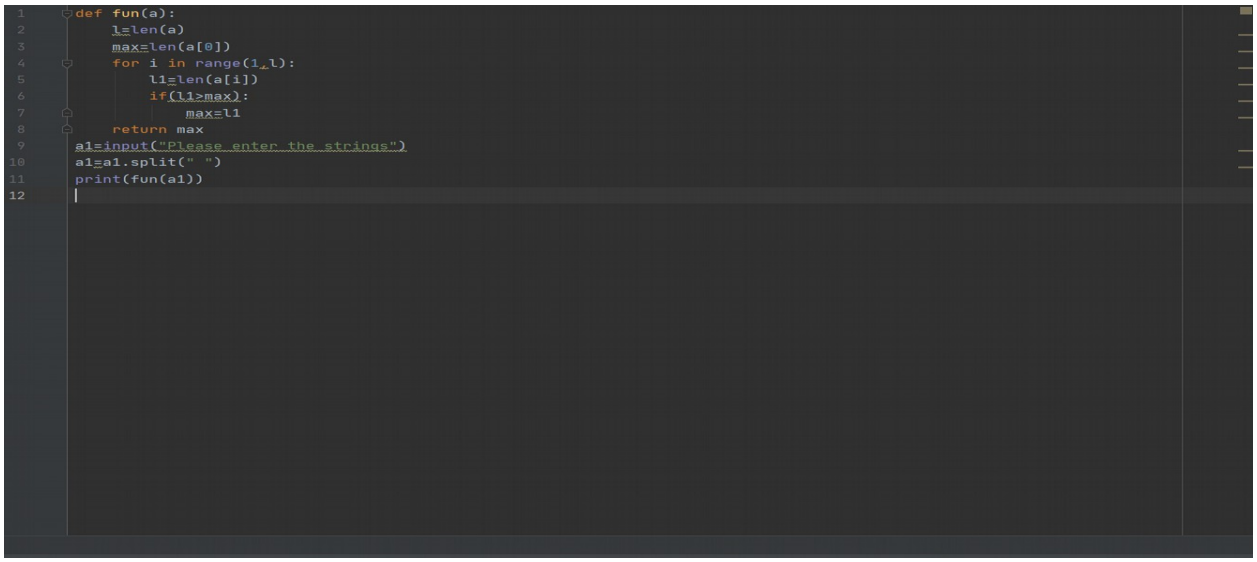
Test Case:



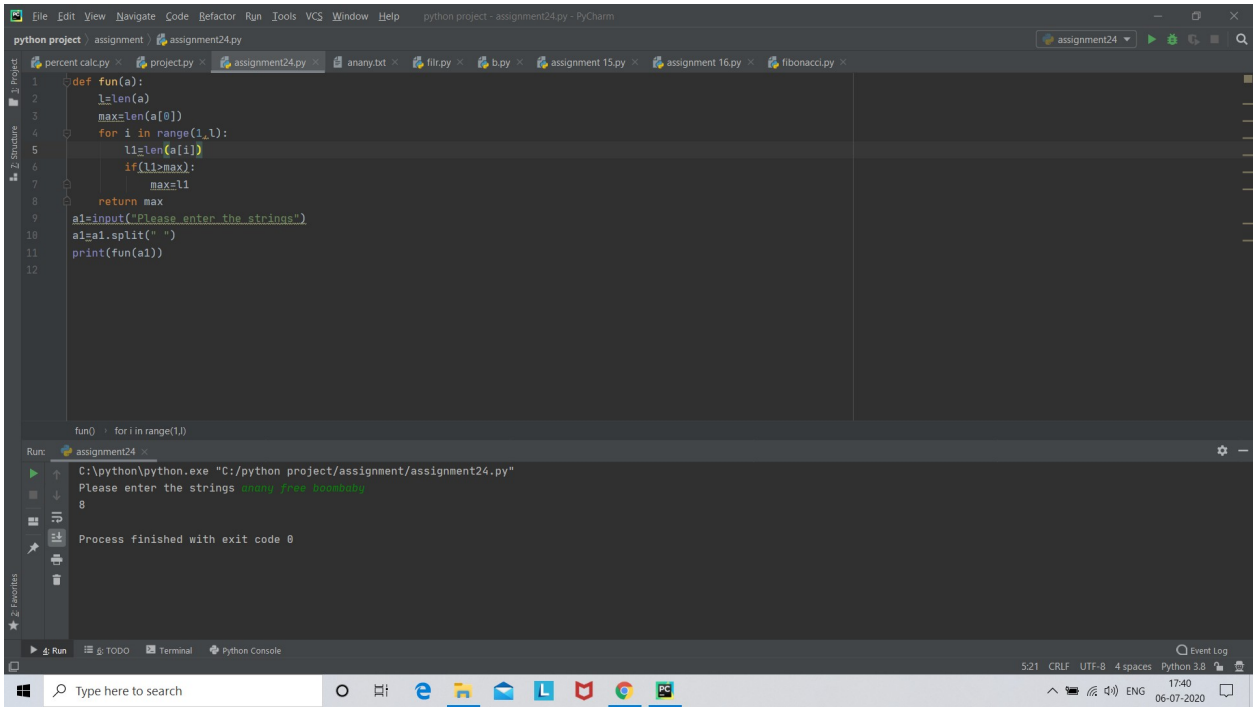
Assignment – 24

Que: Write a Python function that takes a list of words and returns the length of the longest one.

Code:



Test Case:


File Edit View Navigate Code Refactor Run Tools VCS Window Help
python project - assignment24.py - PyCharm
python project > assignment > assignment24.py
assignment24
percent calc.py
project.py
assignment24.py
anany.txt
filr.py
b.py
assignment 15.py
assignment 16.py
fibonacci.py
def fun(a):
l=len(a)
max=len(a[0])
for i in range(1,l):
l1=len(a[i])
if(l1>max):
max=l1
return max
a1=input("Please enter the strings")
a1=a1.split(" ")
print(fun(a1))
fun() > for i in range(1,l)
Run:
assignment24
C:\python\python.exe "C:/python project/assignment/assignment24.py"
Please enter the strings anany free boombaby
8
Process finished with exit code 0
Run
TODO
Terminal
Python Console
Event Log
5:21 CRLF UTF-8 4 spaces Python 3.8
Type here to search
ENG
17:40
06-07-2020