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Class: T.E. Comp

Div: 4

Batch: T16

Assignment 6

```
QUESTIONS = [  
    'Do you have cough?',  
    'Do you have a sore throat?',  
    'Do you have a fever?',  
    'Are you noticing any unexplained excessive sweating?',  
    'Do you have an itchy throat?',  
    'Do you have a runny nose?',  
    'Do you have a stuffy nose?',  
    'Do you have a headache?',  
    'Do you feel tired without actually exhausting yourself?'  
]
```

```
THRESHOLD = {  
    'Mild': 30,  
    'Severe': 50,  
    'Extreme': 75  
}
```

```
def expertSystem(questions, threshold):
```

```
    score = 0
```

```
    for question in questions:
```

```
        print(question+" (Y/N) ")
```

```
        ans = input("> ")
```

```
        if ans.lower() == 'y':
```

```
            print('On a scale of 1-10 how bad is it ?')
```

```
            ip = input('> ')
```

```
            while((not ip.isnumeric()) or int(ip) < 1 or int(ip) > 10):
```

```
                print('Enter a valid input !')
```

```
                ip = input('> ')
```

```
            score += int(ip)
```

```
    print()
```

```
    print()
```

```
    if score >= threshold['Extreme']:
```

```

print("You are showing symptoms of having EXTREME COVID-19")
print("Please call +91 8112233445 immediately to immediate assistance")
print("Based on your symptoms, You will need Immediate Hospitalization")

elif score >= threshold['Severe']:
    print("Based on your answers You are showing Symptoms of SEVERE COVID-19")
    print("You are advised to contact a COVID-19 Specialist ASAP")
    print("You are prescribed with Favipriavir, Dolo 650 / Crocin 500, Paracetamol, Brufane")
    print("Also conduct a COVID-19 Lab Test ASAP at your own convenience as this might be a false
Positive")
    print()
    print()
    print("Lab Testing: https://www.metropolisindia.com/parameter/pune/covid-19-rt-pcr-test")

elif score >= threshold['Mild']:
    print("Based on your answers You are showing Symptoms of VERY MILD COVID-19")
    print("Please Isolate yourself Immediately on a precautionary basis")
    print("As this has a possibility of being a false positive , please consider testing yourself")
    print("At home testing using Self-Testing kits is recommended , but you can get Lab Tests as
well")
    print()
    print()
    print("Self testing : https://www.flipkart.com/mylab-coviself-covid-19-rapid-antigen-test-kit/p/itm4d34ea09cad97")
    print("Lab Testing : https://www.metropolisindia.com/parameter/pune/covid-19-rt-pcr-test")

else:
    print("You are Showing NO Symptoms of COVID-19")
    print("This might be a false negative, If you feel unsure , please get Tested")
    print("As this has a possibility of being a false negative , please consider testing yourself")
    print("At home testing using Self-Testing kits is recommended")
    print()
    print()
    print("Self testing : https://www.flipkart.com/mylab-coviself-covid-19-rapid-antigen-test-kit/p/itm4d34ea09cad97")

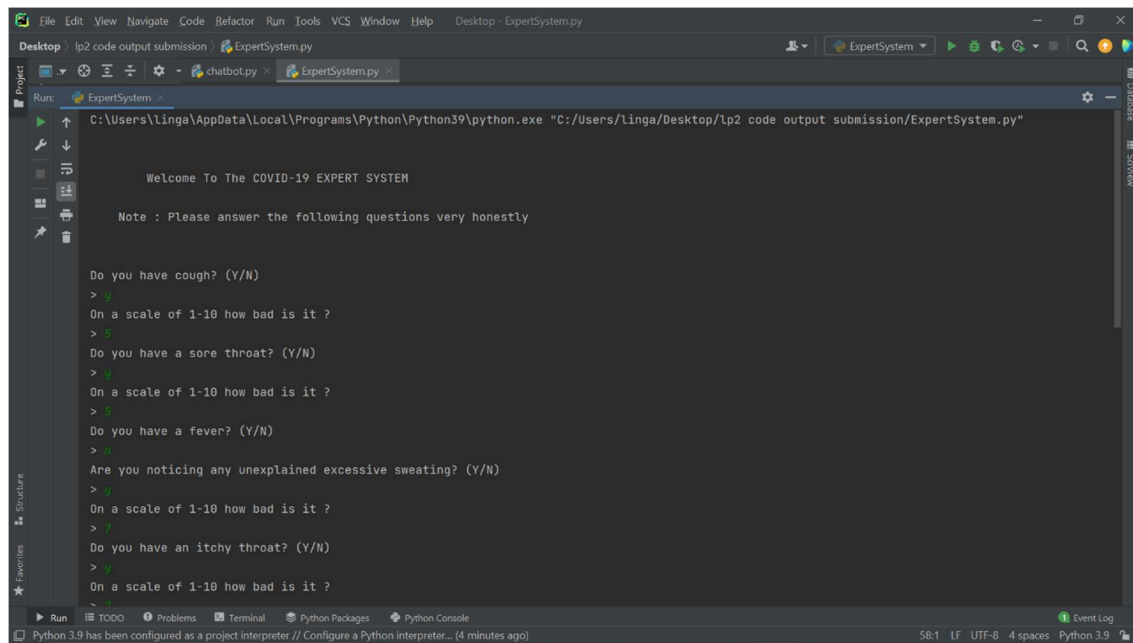
    print()
    print()
    print("For any further queries visit : https://www.aarogyasetu.gov.in/")
    print()
    print()

if '__main__' == __name__:

    print("\n\n\t\tWelcome To The COVID-19 EXPERT SYSTEM\n\n")
    print("\tNote : Please answer the following questions very honestly\n\n")
    expertSystem(QUESTIONS, THRESHOLD)

```

Output:-

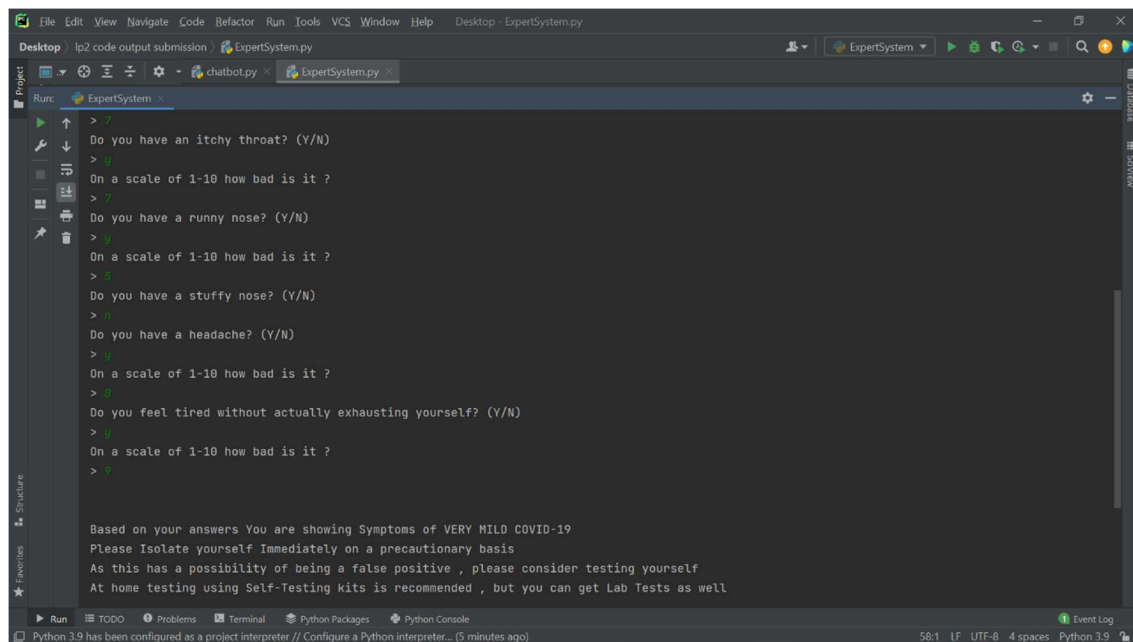


```
File Edit View Navigate Code Refactor Run Tools VCS Window Help Desktop - ExpertSystem.py
Desktop lp2 code output submission ExpertSystem.py
Project chatbot.py ExpertSystem.py
Run: ExpertSystem
C:\Users\linga\AppData\Local\Programs\Python\Python39\python.exe "C:/Users/linga/Desktop/lp2 code output submission/ExpertSystem.py"

Welcome To The COVID-19 EXPERT SYSTEM

Note : Please answer the following questions very honestly

Do you have cough? (Y/N)
> y
On a scale of 1-10 how bad is it ?
> 5
Do you have a sore throat? (Y/N)
> y
On a scale of 1-10 how bad is it ?
> 5
Do you have a fever? (Y/N)
> y
Are you noticing any unexplained excessive sweating? (Y/N)
> y
On a scale of 1-10 how bad is it ?
> 7
Do you have an itchy throat? (Y/N)
> y
On a scale of 1-10 how bad is it ?
> y
Python 3.9 has been configured as a project interpreter // Configure a Python interpreter... (4 minutes ago)
58:1 LF UTF-8 4 spaces Python 3.9
```



```
File Edit View Navigate Code Refactor Run Tools VCS Window Help Desktop - ExpertSystem.py
Desktop lp2 code output submission ExpertSystem.py
Project chatbot.py ExpertSystem.py
Run: ExpertSystem
> y
Do you have an itchy throat? (Y/N)
> y
On a scale of 1-10 how bad is it ?
> 7
Do you have a runny nose? (Y/N)
> y
On a scale of 1-10 how bad is it ?
> 5
Do you have a stuffy nose? (Y/N)
> y
Do you have a headache? (Y/N)
> y
On a scale of 1-10 how bad is it ?
> 5
Do you feel tired without actually exhausting yourself? (Y/N)
> y
On a scale of 1-10 how bad is it ?
> 7

Based on your answers You are showing Symptoms of VERY MILD COVID-19
Please Isolate yourself Immediately on a precautionary basis
As this has a possibility of being a false positive, please consider testing yourself
At home testing using Self-Testing Kits is recommended, but you can get Lab Tests as well

Python 3.9 has been configured as a project interpreter // Configure a Python interpreter... (5 minutes ago)
58:1 LF UTF-8 4 spaces Python 3.9
```

```
File Edit View Navigate Code Refactor Run Tools VCS Window Help Desktop - ExpertSystem.py
Desktop | lp2 code output submission | ExpertSystem.py
Project | chatbot.py | ExpertSystem.py
Run: ExpertSystem
> do you have a headache? (Y/N)
> y
On a scale of 1-10 how bad is it ?
> 8
Do you feel tired without actually exhausting yourself? (Y/N)
> y
On a scale of 1-10 how bad is it ?
> 6

Based on your answers You are showing Symptoms of VERY MILD COVID-19
Please Isolate yourself Immediately on a precautionary basis
As this has a possibility of being a false positive , please consider testing yourself
At home testing using Self-Testing kits is recommended , but you can get Lab Tests as well

Self testing : https://www.flipkart.com/myleb-coviself-covid-19-rapid-antigen-test-kit/p/itm4d34ea09cad97
Lab Testing : https://www.metropolisindia.com/parameter/pune/covid-19-rt-pcr-test

For any further queries visit : https://www.aarogyaasetu.gov.in/

Process finished with exit code 0
|
Run | TODO | Problems | Terminal | Python Packages | Python Console
Python 3.9 has been configured as a project interpreter // Configure a Python interpreter... (5 minutes ago)
58:1 LF UTF-8 4 spaces Python 3.9
```