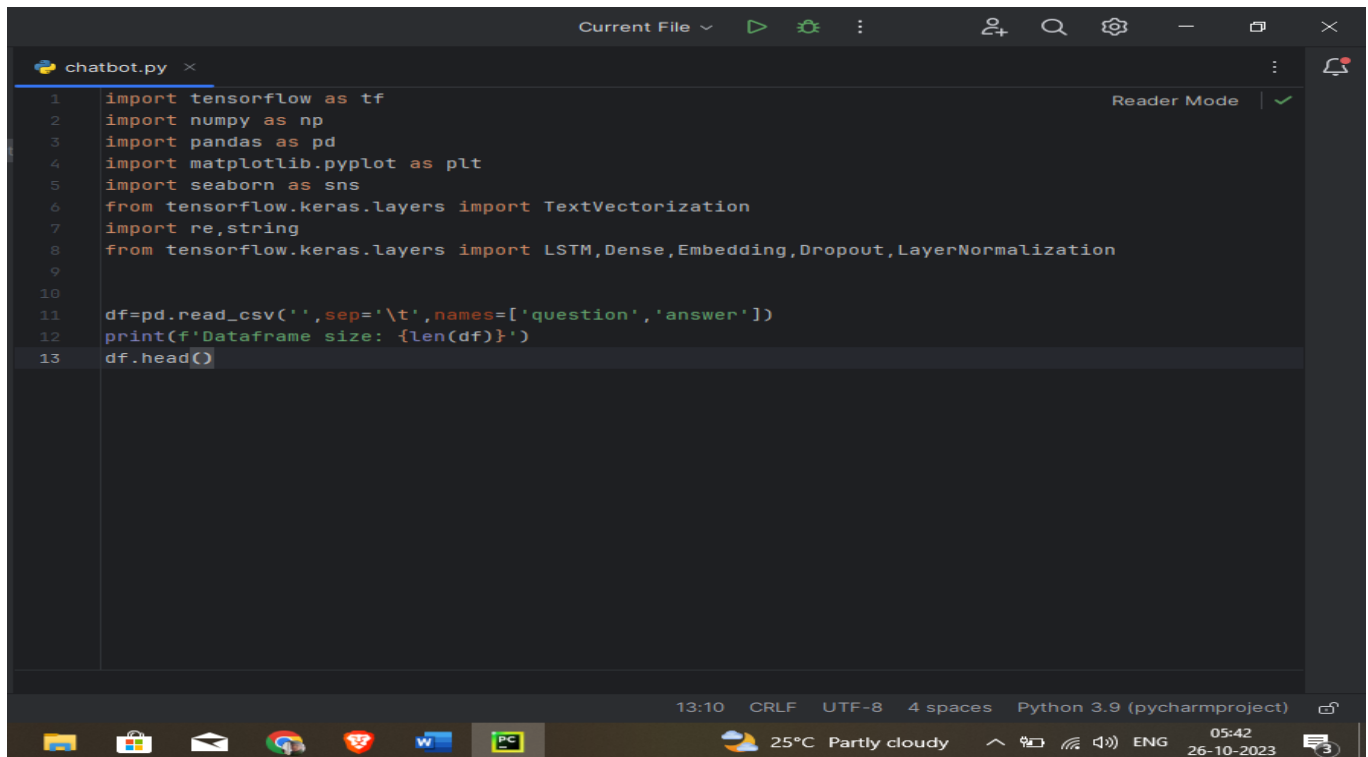


# Medical Chatbot Using python

## Development part 1:

### Import Libraries:



```
1 import tensorflow as tf
2 import numpy as np
3 import pandas as pd
4 import matplotlib.pyplot as plt
5 import seaborn as sns
6 from tensorflow.keras.layers import TextVectorization
7 import re, string
8 from tensorflow.keras.layers import LSTM, Dense, Embedding, Dropout, LayerNormalization
9
10
11 df=pd.read_csv('', sep='\t', names=['question', 'answer'])
12 print(f'Dataframe size: {len(df)}')
13 df.head()
```

### Data processing:

The basic text processing in NLP are:

1. Sentence Segmentation
2. Normalization
3. Tokenization

### Questions and answers:

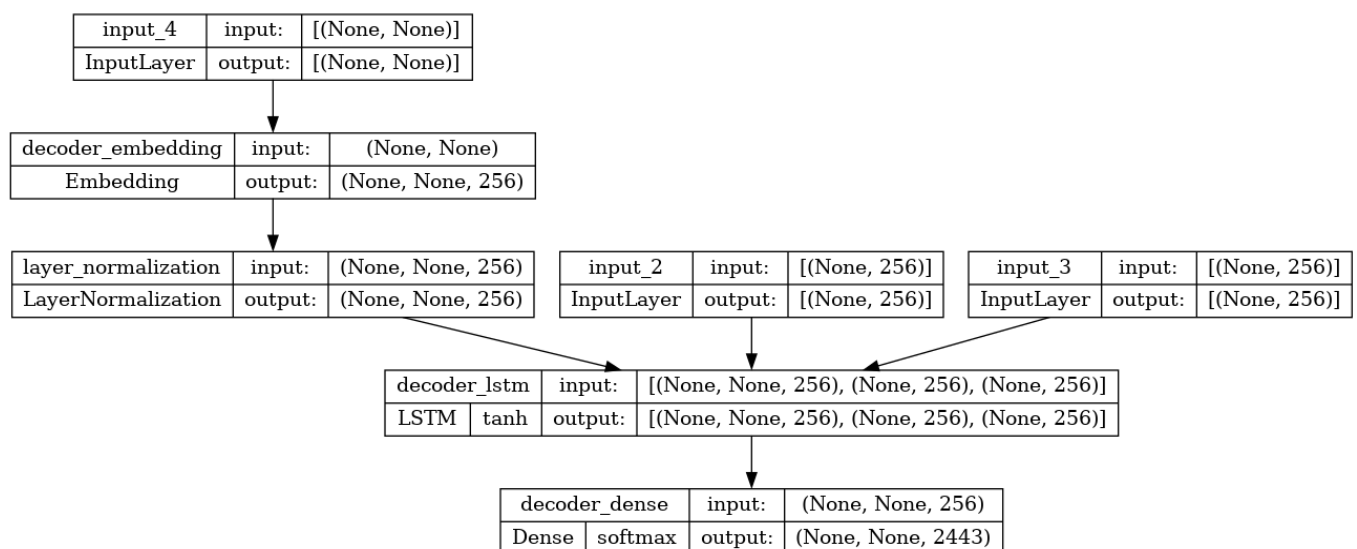
1. hi, how are you doing?  
i'm fine. how about yourself?
2. "I have a fever of 101°F. What should I do?"  
I can offer some general advicer to move an medical checkup.
3. I have a throbbing headache. What should I do?  
I'm not a doctor, but a throbbing headache can be caused by various factors, including tension, dehydration, or sinus issues. Try to drinking water and resting in a quiet, dark room. If the headache persists or worsens, consider consulting a healthcare professional.
4. I'm experiencing chest pain. Is it a heart attack?

if you're experiencing severe chest pain, it's crucial to seek immediate medical attention by calling 911. Chest pain can have various causes, including heart issues, so it's better to be safe and get professional help.

5. Can you provide information on the COVID-19 vaccine?

The COVID-19 vaccine is a critical tool in preventing the spread of the virus. It's available in various types (e.g., mRNA, viral vector). I recommend consulting your local health authority or healthcare provider for detailed information on vaccine availability, eligibility, and benefits.

## Output(Decoder):



## Output(encoder):

