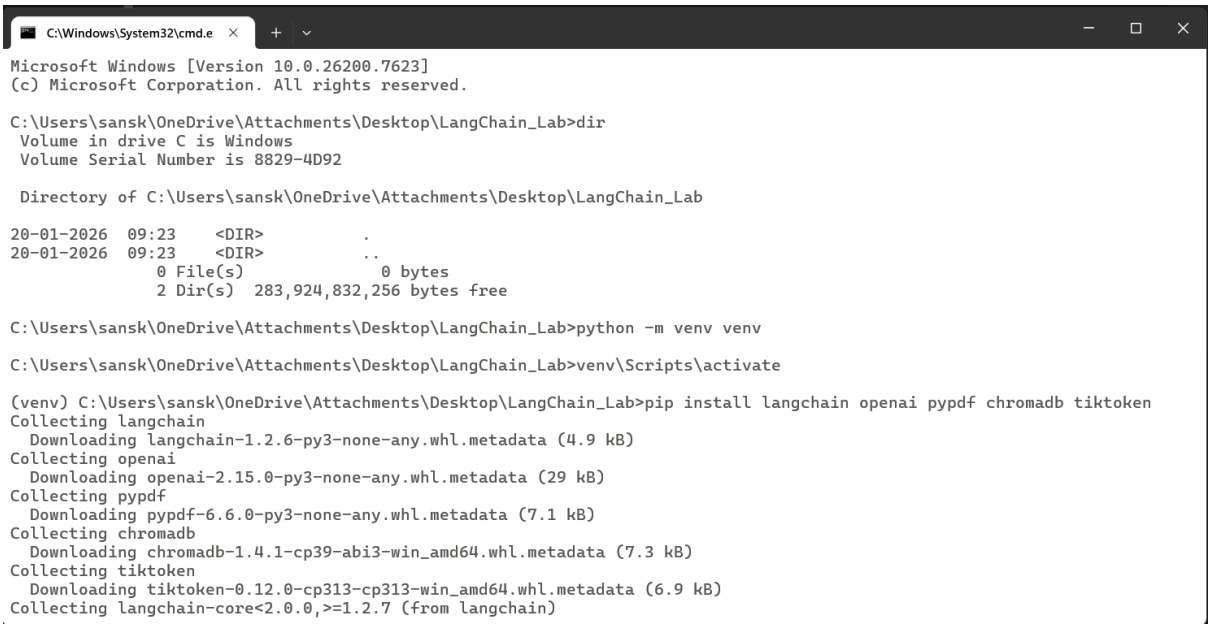
Lab2_GEN_AI:
Part 1:
1. Do a Simple practical application using LangChain - Practical Mode only.
2. Kaggle - Explore Kaggle Opensource and Download any dataset of your Own and Perform Simple Data Analysis. You can directly link the dataset link from the Kaggle to your Code. - Practical Mode only.

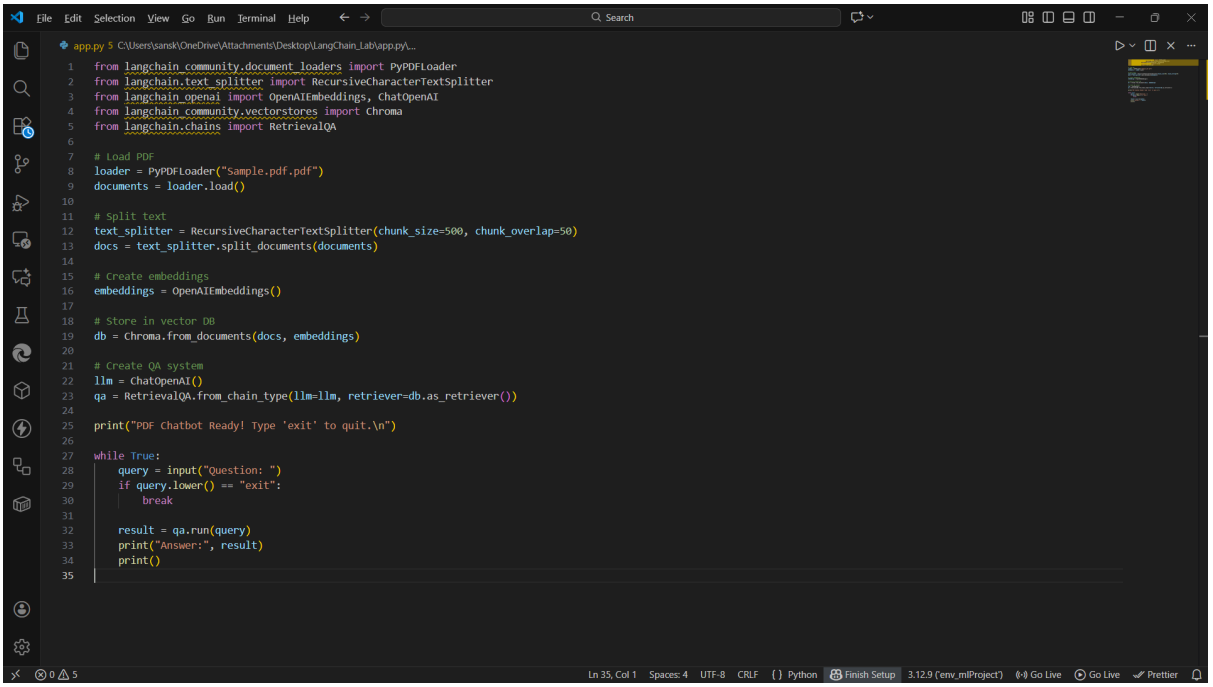
Part 2:

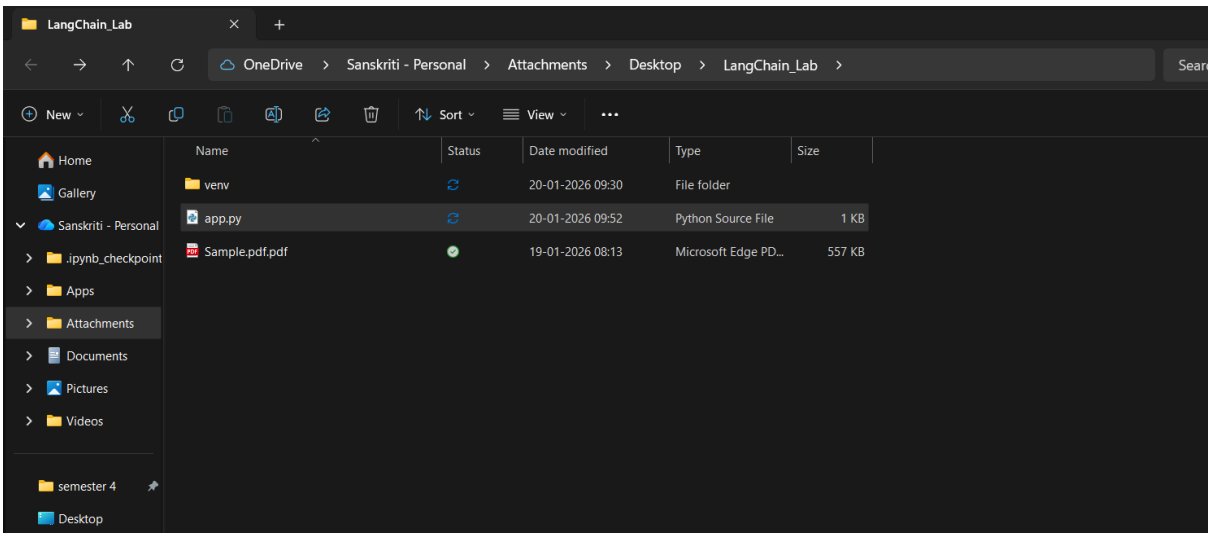
(Installation of Transformer Module, Sentiment analysis, NLP, Translation and summarization and sentence embedding)
3. Fast AI - A simple application on your own to illustrate Fast AI - Practical Mode
4. Hugging Face AI - A simple application on your own to illustrate Hugging Face AI - Practical Mode

All the above should be in Practical Mode only.

Part1-
LangChain- Is an open-source framework that simplifies building applications powered by Large Language models (LLMs) like ChatGPT by providing tools to connect them with code, data and other services.







Online version requires API key - which requires credits and for that billing-

```
vocab.txt: 232kB [00:00, 8.89MB/s]
tokenizer.json: 466kB [00:00, 20.1MB/s]
special_tokens_map.json: 100%|██████████| 112/112 [00:00<00:00, 556kB/s]
config.json: 100%|██████████| 190/190 [00:00<00:00, 905kB/s]
✅ PDF Chatbot Ready! Type 'exit' to quit.

Question: what is the pdf about?
Traceback (most recent call last):
  File "C:\Users\sansk\OneDrive\Attachments\Desktop\LangChain_Lab\app.py", line 51, in <module>
    result = chain.invoke(q)
  File "C:\Users\sansk\OneDrive\Attachments\Desktop\LangChain_Lab\venv\Lib\site-packages\langchain_core\runnables\base.p
y", line 3151, in invoke
    input_ = context.run(step.invoke, input_, config)
  File "C:\Users\sansk\OneDrive\Attachments\Desktop\LangChain_Lab\venv\Lib\site-packages\langchain_core\language_models\
chat_models.py", line 402, in invoke
    self.generate_prompt(
    ~~~~~~~~~~~~~~~~~~~~^
        [self._convert_input(input)],
        ^^^^^^^^^^^^^^^^^^^^^^^^^^^^
    ...<6 lines>...
        **kwargs,
        ^^^^^^^^^
    ).generations[0][0],
    ^
  File "C:\Users\sansk\OneDrive\Attachments\Desktop\LangChain_Lab\venv\Lib\site-packages\langchain_core\language_models\
chat_models.py", line 1121, in generate_prompt
    return self.generate(prompt_messages, stop=stop, callbacks=callbacks, **kwargs)
           ~~~~~~~~~~~~~^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "C:\Users\sansk\OneDrive\Attachments\Desktop\LangChain_Lab\venv\Lib\site-packages\langchain_core\language_models\
chat_models.py", line 931, in generate
```

Therefore switching to OFFLINE version for the LangChain-
Using Ollama-