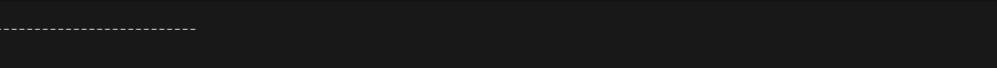


Q1 Output (Parse.py)



PROBLEMS 11 OUTPUT DEBUG CONSOLE TERMINAL PORTS QUERY RESULTS powershell - Q1 + - X

(.venv) PS E:\RAG_project_2\Q3_RAG_Document_Chatbot> python app.py

.

You: exit

Goodbye!

- (.venv) PS E:\RAG_project_2\Q3_RAG_Document_Chatbot> cd ..
- (.venv) PS E:\RAG_project_2> python Parser.py
- E:\RAG_project_2\.venv\Scripts\python.exe: can't open file 'E:\\RAG_project_2\\Parser.py': [Errno 2] No such file or directory
- (.venv) PS E:\RAG_project_2> cd .\Q1\
- (.venv) PS E:\RAG_project_2\Q1> python Parser.py

```
{  
    "order_id": "PO/2024/8821",  
    "client_name": "Global Manufacturing",  
    "order_date": "2025-11-15",  
    "order_total": 2375.0  
}
```

% (.venv) PS E:\RAG_project_2\Q1>

Q2 Output (top_words.py)

```
}  
● (.venv) PS E:\RAG_project_2\Q1> cd ..  
● (.venv) PS E:\RAG_project_2> cd .\Q2\  
● (.venv) PS E:\RAG_project_2\Q2> python top_words.py  
[('learning', 3), ('best', 2), ('machine', 2), ('practice', 2), ('fun', 1)]  
❖ (.venv) PS E:\RAG_project_2\Q2> |
```

Q3 Output : Vectorstore created and Successfully run app.py

The screenshot shows a Jupyter Notebook interface with several tabs at the top: 'llms.py', 'dump.py', 'ingestion.py 4', 'requirements.txt', 'rag_chain.py 4', 'config.py', 'llm_provider.py 2', and 'sam'. The current notebook cell contains Python code for document ingestion:

```
1 # ingestion.py
2
3 import os
4 from langchain.text_splitters import RecursiveCharacterTextSplitter
5 from langchain_community.document_loaders import PyPDFLoader
6 from langchain_community.vectorstores import FAISS
7 from langchain_community.embeddings import HuggingFaceEmbeddings
8
9 PDF_FOLDER = "pdfs"
10 VECTORSTORE_PATH = "vectorstore"
11
12 def ingest_pdfs():
13     docs = []
14
15     # Load PDFs
16     for file in os.listdir(PDF_FOLDER):
17         if file.endswith(".pdf"):
18             loader = PyPDFLoader(os.path.join(PDF_FOLDER, file))
19             docs.extend(loader.load_and_parse())
```

Below the code, there's a 'PROBLEMS' section with 11 items, and tabs for 'OUTPUT', 'DEBUG CONSOLE', 'TERMINAL', 'PORTS', and 'QUERY RESULTS'. A terminal window below shows the command 'python ingestion.py' being run, followed by a warning about the deprecation of 'HuggingFaceEmbeddings' and its replacement with 'langchain-huggingface'. The final message indicates that a Vectorstore was created and saved successfully.

```
PROBLEMS 11 OUTPUT DEBUG CONSOLE TERMINAL PORTS QUERY RESULTS powershell - Q3_RAG_Document_Chatbot + × | X

`langchain-huggingface` and import as `from langchain_huggingface import HuggingFaceEmbeddings``.
embedder = HuggingFaceEmbeddings(model_name="sentence-transformers/all-MiniLM-L6-v2")
Vectorstore created and saved successfully!
● (.venv) PS E:\RAG_project_2\Q3_RAG_Document_Chatbot> python app.py
Loading Grot Llama3-8B model...
Setting up RAG pipeline...

💡 Document Chatbot Ready!
Type 'exit' to quit.

You: Summarize the document

Bot: The documents describe an individual's professional experience, university projects, education, skills, and activities.

**Professional Experience:** The individual worked as a Jr. Python Developer at WIPRO from November 2021 to March 2023. Responsibilities included collaborating with cross-functional teams, addressing and resolving deployment issues, developing and implementing strategies to optimize system performance and user experience, developing and testing AI Agents, building Agentic AI using AWS Lambda, Bedrock, and n8n workflow, resolving 45+ new templates and bug fixes, and documenting project progress.

**University Projects:** Projects include an ongoing Q&A Chatbot Using OpenAI And Open Source LLMs (Aug 2025), which involves developing a Retrieval-Augmented Generation (RAG) pipeline utilizing OpenAI, open-source LLMs, and FAISS for similarity search. Another project is SENTIMENT ANALYSIS (Jan 2021 college project), implemented as an AI/ML Python project using Kaggle, OpenCV, and Vader. The individual also enabled users to be recommended movies based on 50+ data points.

**Education:** The individual holds a Bachelors of Science (Computer Science) from MUMBAI UNIVERSITY, completed from July 2018 to April 2021, with a major in Computer Science and Logical Thinking. Relevant coursework included Python, C++, Software Engineering, Operating Systems, Algorithms, and Artificial Intelligence.

**Technical Skills:** Technical skills listed are SQL, Python, JavaScript, HTML & CSS, Pandas, MATLAB, NumPy, PyTorch, seaborn, AI/ML, and Django.

**Activities:** The individual is a Member of BOMBAY BOOKIES (Jan 2017 - Present), attending events related to book reading, book donations, and helping others.

-----
You: exit
Goodbye!
● (.venv) PS E:\RAG_project_2\Q3_RAG_Document_Chatbot>
```