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!pip install langchain
!pip install openai
!pip install PyPDF2
!pip install faiss-cpu
from PyPDF2 import PdfReader
from langchain.embeddings.openai import OpenAIEmbeddings
from langchain.text splitter import CharacterTextSplitter
from langchain.vectorstores import ElasticVectorSearch, Pinecone,
Weaviate, FAISS
import os
os.environ["OPENAI AI KEY"]="sk-Py5T3oCKsbg9lDsMCf8lT3BlbkFJ4bp2x
u7UhZiVEcdUbB0X"
from google.colab import drive
drive.mount('/content/gdrive', force remount=True)
root dir="/content/gdrive/My Drive/"
reader =
PdfReader('/content/gdrive/MyDrive/ToxipediaGreenhouseEffectArchive.
pdf')
reader
raw text="
for i, page in enumerate(reader.pages):
 text = page.extract text()
 if text:
  raw text += text
raw text
```

```
raw_text[:100]
text splitter= CharacterTextSplitter(
  separator = "\n",
  chunk size = 1000,
  chunk overlap = 200,
  length function = len,
texts = text splitter.split text(raw text)
len(texts)
texts[2]
pip install embeddings
!pip install openai
import openai
embeddings = OpenAIEmbeddings()
docsearch = FAISS.from texts(texts, embeddings)
from langchain.chains.question_answering import load_qa_chain
from langchain.llms import OpenAI
chain = load ga chain(OpenAI(), chain type="stuff")
## Now we are asking the question ##
query = "what is Green house effect"
docs = docsearch.similarity search(query)
chain.run(input documents=docs, question=query)
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query = "What type of gases are responsible for greenhouse effect"
docs = docsearch.similarity_search(query)
chain.run(input_documents=docs, question=query)

query = "How to control the green house effect "
docs = docsearch.similarity_search(query)
chain.run(input_documents=docs, question=query)