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Assignment 6

In a doc: (1) describe how you created your knowledge base, include screen shots of the knowledge base, and indicate your top 10 terms; (2) write up a sample dialog you would like to create with a chatbot based on your knowledge base

This project web crawls through the Attack on Titan wikipedia page and extracts 15 relevant hyperlinks. Then it scrapes all text from each page, cleans up the text, and stores it into text files. It then extracts 25 important terms using term frequency. I then manually selected 10 of these words to put in the knowledge database dictionary:

```
top_10 = {'anime': [], 'attack': [], 'titan': [], 'season': [], 'film': [], 'theme': [], 'funimation': [],  
         'isayama': [], 'eren': [], 'television': []}
```

Each word has an array as its pair. I then iterated through every sentence in the text extracted from the hyperlinks. If the word was in the sentence, I added that sentence to the term's array in the dictionary. Here is a screenshot of part of the knowledge base:

First five sentences contained for each term in the Knowledge Base:

```
anime:  
'the attacking giant') is a japanese dark fantasy anime television series, adapted from the manga series of the same name by hajime isayama, that premiered on april 7, 2013.  
it has aired on nhk general tv in japan,[g] and aniplus asia in various asia-pacific countries.  
[5] the anime had some production issues with needing more animators with wit studios' character designer, kyoji asano tweeting and looking for active animators to work on the anime.  
[7][8] funimation has also licensed the anime for home video release in 2014.  
[9] episode 1 of the english version premiered at anime boston,[10] with other episodes put on funimation's subscription services.  
[12] in australia, the anime aired on sbs 2 on tuesdays, in japanese with english subtitles, with the first episode having aired on september 30.  
  
attack:  
attack on titan (japanese: 進撃の巨人, hepburn: shingeki no kyojin, lit.  
'the attacking giant') is a japanese dark fantasy anime television series, adapted from the manga series of the same name by hajime isayama, that premiered on april 7, 2013.  
it has aired on nhk general tv in japan,[g] and aniplus asia in various asia-pacific countries.  
attack on titan has also aired on adult swim's toonami programming block in the u.s. set in a post-apocalyptic world where the remains of humanity live behind walls protecting them from giant humanoid titans  
since its debut in 2013, attack on titan has received widespread critical acclaim and multiple accolades.  
produced by ig port's wit studio and directed by tetsurō araki, attack on titan was broadcast on mbs tv from april 7, 2013 to september 29, 2013, and later aired on tokyo mx, fbs, tos, htb, tv aichi and bs11  
  
titan:  
attack on titan (japanese: 進撃の巨人, hepburn: shingeki no kyojin, lit.  
attack on titan has also aired on adult swim's toonami programming block in the u.s. set in a post-apocalyptic world where the remains of humanity live behind walls protecting them from giant humanoid titans  
when a colossal titan breaches the wall of their hometown, titans destroy the city and eat eren's mother.  
vowing vengeance, eren joins the elite survey corps, a group of soldiers who fight against titans.  
it chronicles eren's journey with the survey corps as they fight against the titans while investigating their origin and history.
```

Here is a sample dialog I would like to create with a chatbot based on my knowledge base:

User: "What is Attack on Titan?"

Bot: *"Attack on Titan is a Japanese dark fantasy anime television series, adapted from the manga series of the same name by Hajime Isayama, that premiered on April 7, 2013."*

User: "What is Attack on Titan's story about?"

Bot: *"Attack on Titan is set in a post-apocalyptic world where the remains of humanity live behind walls protecting them from giant humanoid titans, Attack on titan follows protagonist Eren Yeager, along with friends mikasa Ackerman and Armin Arlert."*

User: "Why do people like Attack on Titan?"

Bot: *"Critics and audiences have praised the show for its story line, animation, action sequences, characters, voice acting (both original and dubbed), soundtrack, and dark themes."*

User: "What happens in the first season of Attack on Titan?"

Bot: *"SPOILER WARNING: In the first season, split into two parts, the protagonist, Eren Yeager, witnesses his mother dying after being eaten by the series' main antagonists, the titans."*

User: "Where can I watch Attack on Titan?"

Bot: *"In the United States and Canada, the series can be streamed on Crunchyroll, Funimation, Netflix, Amazon Prime Video, and Hulu."*