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Artificial Intelligence

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Chatbot for Khan Family

A simple chatbot's responsibility is to answer the related queries to a subject or group of subjects. Here, my chatbot will answer queries which will be in English and might use some words of Urdu in English writing like beta, beti, daada, naani etc.

How it get started

There is a prolog file stored in the system which has some logical answers about the relations in the **khan family**. That file will help us to find the logical relation like grandma or something like this. So, for this sake we need to read the file first from our main.py file.

```
from pyswip import Prolog  
  
import nltk  
  
prolog = Prolog()  
  
prolog.consult("khan_fam.pl")
```

Findings

The main focus of this is to build a chatbot that can answer our queries related to the Khan family. We are not making a flexible chat like Siri and ChatGPT or others alike. Our chatbot will only interact with users related to Khan Family queries like who is asad or what is the gender of asad and etc. One more thing, I coded as general so only those queries will be answered for which prolog answers.

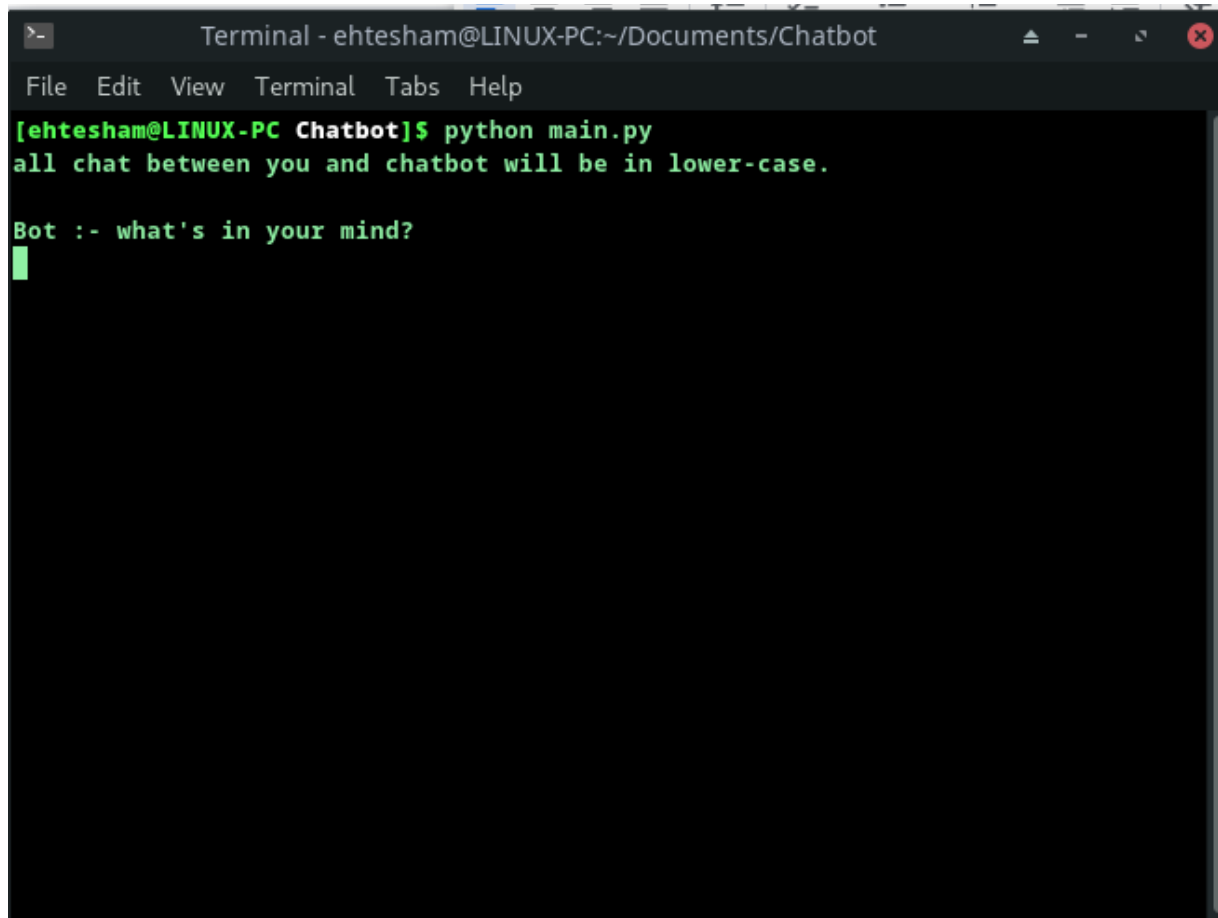
How does our chatbot work?

There is no deep down science here, it is just simple use of a dictionary here, a key having a list of values. Those values can be the words from the input query. If a word from the dictionary values found in the query the respective key will be used as a query for prolog. For example;

```
Dictionary = { 'gins': ["gins", "gender", "sex"] }
```

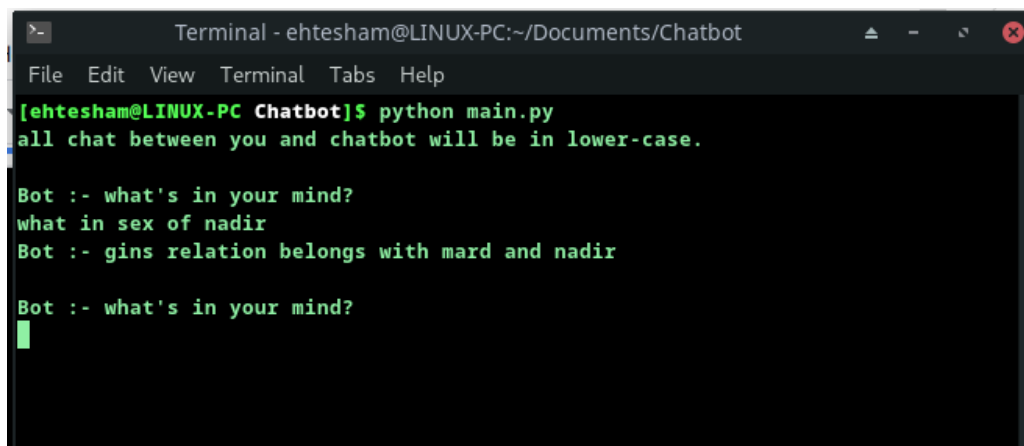
Now, if “gins”, “gender” or “sex” is found in the input query then python will find ‘gins’ query in prolog and will answer back to the user according to that query.

EXAMPLES



```
Terminal - ehtesham@LINUX-PC:~/Documents/Chatbot
File Edit View Terminal Tabs Help
[ehtesham@LINUX-PC Chatbot]$ python main.py
all chat between you and chatbot will be in lower-case.

Bot :- what's in your mind?
```



```
Terminal - ehtesham@LINUX-PC:~/Documents/Chatbot
File Edit View Terminal Tabs Help
[ehtesham@LINUX-PC Chatbot]$ python main.py
all chat between you and chatbot will be in lower-case.

Bot :- what's in your mind?
what in sex of nadir
Bot :- gins relation belongs with mard and nadir

Bot :- what's in your mind?
```

In the above query, chatbot answered the input query by finding word 'sex' in query.


```
what is gender of rabia
Bot :- gins relation belongs with aurat and rabia

Bot :- what's in your mind?
what is baapdada of rabia
Bot :- baapdada relation belongs with rizwan and rabia

Bot :- what's in your mind?
nani of rabia
Bot :- nani relation belongs with sumra and rabia

Bot :- what's in your mind?
pota of chotekhan
Bot :- pota relation belongs with burhan and chotekhan

Bot :- what's in your mind?
who is daughter-in-law of chotekhan
Bot :- beti relation belongs with kausar and chotekhan
Bot :- beti relation belongs with kausar and chotekhan
Bot :- beta relation belongs with nadir and chotekhan
Bot :- bahu relation belongs with nahid and chotekhan

Bot :- what's in your mind?
█
```

Note:

Our chatbot is not high end. It's the very basic and returns what we need only.