```
from gensim.parsing.preprocessing import remove stopwords
import nltk
nltk.download('punkt')
from nltk.tokenize import word tokenize
from nltk.stem import PorterStemmer
import re
import string
string.punctuation
ps = PorterStemmer()
file = open('a5/facts.txt','w')
def preprocess(text):
  text = re.sub(re.compile('<.*?>') , '', text)
  text = text.lower()
  text = "".join([t for t in text if t not in string.punctuation])
  text = remove_stopwords(text)
  return word tokenize(text)
def pf():
       r = preprocess(input(f"{x}\n"))
def knows(L):
       r= preprocess(input(f"do you know {x}?\n"))
               pf()
def good at(L):
       r= preprocess(input(f"Are you good at {x}?\n"))
```

```
file.write(f'good at(\{x\}).\n')
def interested(L):
       r= preprocess(input(f"Are you interested in {x}?\n"))
           file.write(f'interested(\'{x}\').\n')
def aiml():
   good at(['statistics and probability','linear algebra','logic'])
def de():
   interested(['Big Data','Database Administration'])
def isec():
   knows(['\'C\'','cpp','java','unix'])
def mc():
name = input("""
What is your name?:
""")
name = preprocess(''.join([i for i in name if not i.isdigit()]))
file.write('name({}).\n'.format(name[0]))
cgpa = input("""Is your CGPA more than 7.5?:
cgpa = cgpa.lower()
cgpa = preprocess(cgpa)
```

```
for c in cgpa:
field = preprocess(input("""Which of these professions attract you most?
1. Machine Learning Engineer or AI Researcher
2. Data Engineer or Big Data expert
3. Cyber Security Expert
4. Iot Specialist or System Engineer
""") )
if "1" in field or "ai" in field or "ml" in field or "machine" in field or
"researcher" in field:
  aiml()
elif "data" in field or "de" in field or "big" in field:
  de ()
elif "info" in field or "security" in field or "cyber" in field or "information" in
field:
elif "iot" in field or "internet" in field or "system" in field:
  mc()
```

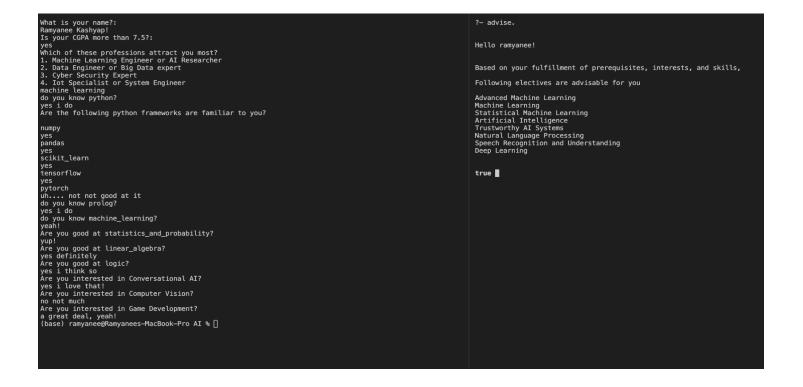
Output:

```
Thirty, data | Package punkt is already up-to-date!

# true.

# advise.

# advise.
# advise.
# advise.
# advise.
# advise.
# advise.
# advise.
# advise.
# advise.
# advise.
# ad
```



```
What is your name?:
Ramyanee!!12
Is your CGPA more than 7.5?:
yes, it is
Which of these professions attract you most?
1. Machine Learning Engineer or AI Researcher
2. Data Engineer or Big Data expert
3. Cyber Security Expert
4. Iot Specialist or System Engineer
i like data engineering
do you know 'Python'?
yes i do
do you know sql?
not good at it
do you know hadoop?
yes
                                                                                                                                                                                                                                                                                                                                  ?- advise.
                                                                                                                                                                                                                                                                                                                                 Hello ramyanee!
                                                                                                                                                                                                                                                                                                                                 Based on your fulfillment of prerequisites, interests, and skills,
                                                                                                                                                                                                                                                                                                                                 Following electives are advisable for you
                                                                                                                                                                                                                                                                                                                                 Machine Learning
Statistical Machine Learning
                                                                                                                                                                                                                                                                                                                                 true 🛮
do you know hadoop?
yes
do you know spark?
i don't think so, no
Are you good at statistics_and_probability?
yes, definitely
Are you good at linear_algebra?
yeah!
Are you interested in Big Data?
yup!!
Are you interested in Database Administration
 yup!!
Are you interested in Database Administration?
no not much
(base) ramyanee@Ramyanees—MacBook—Pro AI % [
```

(base) ramyanee@Ramyanees-MacBook-Pro AI % /Users/ramyanee/opt/anaconda3/bin/python /Users/ramyanee/Down loads/AI/a5/nlp.py
/Users/ramyanee/opt/anaconda3/lib/python3.8/site-packages/gensim/similarities/__init__.py:15: UserWarning: The gensim.similarities.levenshtein submodule is disabled, because the optional Levenshtein package < https://pypl.org/project/python-Levenshtein/> is unavailable. Install Levenshtein (e.g. `pip install python-Levenshtein') to suppress this warning.
warnings.warn(msg)
[nltk_data] Downloading package punkt to /Users/ramyanee/nltk_data...
[nltk_data] Package punkt is already up-to-date! (base) ramyanee@Ramyanees-MacBook-Pro a5 % swipl Welcome to SWI-Prolog (threaded, 64 bits, version 8.2.4) SWI-Prolog comes with ABSOLUTELY NO WARRANTY. This is free software. Please run ?- license. for legal details. For online help and background, visit https://www.swi-prolog.org
For built-in help, use ?- help(Topic). or ?- apropos(Word). ?- [ca]. true. What is your name?:
Ramyanee!
Is your CGPA more than 7.5?:
nah, it's not
Which of these professions attract you most?
1. Machine Learning Engineer or AI Researcher
2. Data Engineer or Big Data expert
3. Cyber Security Expert
4. Iot Specialist or System Engineer
ummm... i think iot
do you know 'Operating System'?
no Hello ramvanee! Based on your fulfillment of prerequisites, interests, and skills, Following electives are advisable for you Embedded Logic Design do you know 'Operating System'? no you know 'Computer Networks'? yes I am good at it Are you good at 'Embedded Systems? definitely, yeah! Are you good at Programming'? yes I can code well Are you interested in Internet of Things? yeah a lot actually! Are you interested in Robotics? no, not much. (base) ramyanee@Ramyanees-MacBook-Pro AI % [true 🛮

ROBLEMS OUTPUT **TERMINAL** DEBUG CONSOLE