CS 335: Eliza

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1 TASK

Create an Eliza like program. For a description of what Eliza is, look here
You should be able to ask Eliza about anything and include feelings, relationships and activities. Eliza should respond sensibly.

You will need to use regular expressions in this class. Please refer to the resources page to learn about regular expressions.

2 MUST HAVE

Your work must comply with the following:

- Your homework must be done in Python.

- Your agent must ask for the user's name and greet that user using her/his name: 20pts.

- Your agent must recognize feelings like sad,mad,happy,joyful,good and bad within a user's response and respond: 10pts.

- Your agent must recognize verbs ending in **ing** and use the verb in its natural form in the response (most of the time):20pts

- Your agent must recognize some relationship labels like "mother", "mom", "father", "dad", "brother", "sister", "friend" and respond appropriately: 10pts

- Uses regular expressions for all detections: 20pts.

- Is able to maintain a dialogue no matter what the user input is, except for "bye", which should terminate the dialogue. 20pts.

3 SUBMIT

Submit only ONE python file (No ZIP, no TXT) that will run from anywhere. The file must comply with the following convention (THIS IS VERY IMPORTANT)

- The first line of your file should indicate the python version as follows:

    - If you are using a flavor of python 3.x, your first line should be: `#!/usr/bin/env python3`

    - If you are using a flavor of python 2.7.x your first line should be: `#!/usr/bin/env python2`

- The second line should have the name of the homework and optionally a couple of words about it. These should be enclosed in three quotation marks. For example: `""" Eliza homework. Relationship advisor """`

- The third line should have your name assigned to the __author__ variable. For example if your name is "John Doe" your next line should be:

  `__author__="John Doe"`

- Optionally, you can specify a file encoding on your second line and then follow the convention. You do this by adding the following line as a second line:
  `# # -*- coding: utf-8 -*-`

A sample hello world file created with python 2.7.x for John Doe looks like this:

```python
#!/usr/bin/env python2
# # -*- coding: utf-8 -*-
""" Hello World program """
__author__="John Doe"

print "Hello World"
```

The same file created with python 3.x looks like:

```python
#!/usr/bin/env python3
# # -*- coding: utf-8 -*-
""" Hello World program """
__author__="John Doe"

print ("Hello World")
```