AppliedPathways Intern Programming Assignment

The goal of this assignment is to provide to you a sense of a real world assignment that we would expect you to help with.

The internship position will require familiarity with Java (Groovy) and Python to help create automated testing scripts.

Assignment

Create a command line python script that will consume the 'appliedpathways_input_file.txt' and produce to the terminal a table like the following:

```
+----------------------------------------------------------------+-----------------------+----------------------+
| Question Label                                                 | Answer Values         | Type                 |
+----------------------------------------------------------------+-----------------------+----------------------+
| Test Recommendations Nested and Duplicated                     |                       | algorithm            |
| Expected traversal outcomes                                    |                       | message              |
| Select Path                                                    | Path 1,Path 2,Path 3  | question/standard    |
| Path 1 selected                                                | true                  | expression           |
| Goal Take medications as prescribed                            |                       | recommendation       |
| Problem Emotions or beliefs                                    |                       | recommendation       |
| Intervention Respond to lack of understanding about medication |                       | recommendation       |
| Path 2 selected                                                | true                  | expression           |
| Goal Take medications as prescribed                            |                       | recommendation       |
| Problem Provider response needed for medication adherence      |                       | recommendation       |
| Intervention Discuss medication questions and concerns with provider |                 | recommendation       |
| Path 3 selected                                                | true                  | expression           |
| Goal Understand medication                                     |                       | recommendation       |
| Problem Emotions or beliefs                                    |                       | recommendation       |
| Intervention Respond to emotions or beliefs about medications  |                       | recommendation       |
| Intervention Discuss medication questions and concerns with provider |                 | recommendation       |
| Stop                                                           |                       | stop                 |
+----------------------------------------------------------------+-----------------------+----------------------+
```

The input file is a collection of traversal node details, where each node is separated by '# ——————————'

The 'Question Label' is the '#basetext' line if it exists, otherwise it is the '#name' line.

The 'Answer Values' column is the value in the '#answer_names' line for questions, nothing for recommendations or messages, or '#additionaldata:result:' for expressions.

The 'Type' column is the value in the '#type' line.

Delivery

You should provide a single python script that requires no input parameters and assume the input file is named as above and is col-located with the python script.

You can use either python 2 or 3 and you should provide instructions how to install any third party python libraries. (or a requirements.txt).

Output

The output is just sent to the terminal window and no GUI or writing the results to a file is necessary.