

**Your assignment:**

In either Turing, Java or Python, write a DFA that will edit text as follows:

**Sample Input:**

Hi THERE,        how are you    ?   i am

FINE thanks        .

**Ouput:**

Hi there, how are you? I am fine thanks.

For a score of 70% you will be required to at least

- Read in from a file “input.txt”
- Output formatted text to “output.txt”
- Capitalize the beginning of every sentence.
- Discard extra spaces
- Discard extra lines
- Comment
  - All text formatting must be defined at beginning of your program
  - Define variable use in the program
  - Define and functions you may write

For an additional 20% you will write another 5 predicted formatting corrections that will identify and incorporate into your program. Example: i → I

To achieve 100%, one must go over and above what is asked. A 90% is accessible to all, however, 100% will be something unique and deserving of distinction.

To get you started, you may want to consider states.

\*Hint you may want to consider a states “InScentence” or “InSpace”

Due: in one week. Do not fret. This is not the nested logical loop nightmare of the last “weeder” assignment. When you dial in to the concept, this assignment is enjoyable and over quickly. I’m always available for extra help.