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**Drug Interaction checker**

This code implements a basic drug interaction checking tool that demonstrates how to programmatically store and retrieve known drug interaction information. It uses a Python dictionary with drug name pairs (stored as tuples) as keys and their interaction descriptions as values.

The program runs in a continuous loop, prompting users to enter two drug names and checking if there's a known interaction between them. The check\_interaction() function searches for both possible orderings of the drug pair to find any documented interactions. By identifying potential drug interactions, the checker helps patients avoid harmful side effects, such as increased bleeding or liver damage. Patients can better understand the risks associated with their medications, allowing them to make informed decisions about their treatment options. This tool enables patients to check for interactions from home, saving time and effort compared to visiting a healthcare provider.

**Key technical features:**

- Uses tuple pairs as dictionary keys for bidirectional lookup

- Implements a simple command-line interface with an 'exit' option

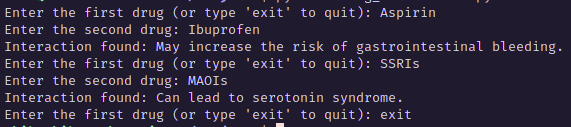
- Returns both the existence of an interaction and its description

**Python code for Drug Interaction checker**

A screenshot of a computer program

Description automatically generated

**Output**

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