**Medical Expert System User Manual**

**Introduction**

Welcome to the Medical Expert System! This program is designed to help you diagnose common illnesses based on the symptoms you are experiencing. Please follow the instructions below to use the system effectively.

**Installation**

Make sure you have Python installed on your system. The code uses the Tkinter library, which is included in most standard Python installations.

**Running the Program**

1. Open a terminal or command prompt.

2. Navigate to the directory containing the Python script.

3. Run the script by executing the command: `python script\_name.py` (Replace `script\_name.py` with the actual name of the Python script).

**Using the Medical Expert System**

1. **Welcome Screen:**

   - Upon running the program, a window titled "Medical Expert System" will appear.

   - The window will display a title label, welcoming you to the system.

2. **Instructions:**

   - Below the title, you will find an instruction label asking you to select any symptoms you are experiencing.

3. **Symptoms Selection:**

   - Check the checkboxes next to the symptoms you are currently experiencing.

   - The available symptoms are: Cough, Fever, and Headache.

4. **Diagnose Button:**

   - After selecting your symptoms, click the "Diagnose" button.

   - The system will analyze your symptoms using simple rule-based logic.

5. **Diagnosis Result:**

   - The result label below the "Diagnose" button will display the system's diagnosis based on your selected symptoms.

   - Possible diagnoses include the flu, a cold, a migraine, or a general healthy state.

6. **Closing the Program:**

   - You can close the program by clicking the close button on the window.