Running the DataReporter Java Program

The `DataReporter` Java program processes educational statistics data, calculating and displaying the population and child poverty figures by state. Follow these instructions to compile and run the program:

Prerequisites:

- Ensure you have Java Development Kit (JDK) installed on your system. You can download it from the [Oracle website](#) if you don't have it installed.

Steps to Compile and Run:

1. **Save the Java Code**:
   - Save the provided `DataReporter.java` file on your computer in a suitable directory.
2. **Open Command Prompt or Terminal**:
   - Windows: Open Command Prompt (`cmd`).
   - macOS/Linux: Open Terminal.
3. **Navigate to the Directory**:
   - Use the `cd` command to change to the directory where you saved `DataReporter.java`.
   - Example: If you saved it in `C:\Users\YourName\Documents\JavaPrograms`, type:
     bash

```
cd C:\Users\YourName\Documents\JavaPrograms
```

   - Example: If you saved it in `C:\Users\YourName\Documents\JavaPrograms`, type:
     Bash

4. **Compile the Program:**

- In the command prompt or terminal, compile the program by typing:

```
javac DataReporter.java
```

- This command will compile the `DataReporter.java` file and create a `DataReporter.class` file in the same directory.

5. **Run the Program**:

- After compiling, run the program by specifying the path to the data file as an argument. Type:

```
java DataReporter path_to_data_file
```

Replace `path_to_data_file` with the actual path to the `SmallAreaIncomePovertyEstData.txt` file.
Example: If the file is in the same directory, simply type:

```
java DataReporter SmallAreaIncomePovertyEstData.txt
```

Output:

- The program will display the state, total population, child population, child poverty population, and percentage of child poverty in a formatted table in the command prompt or terminal window.

Ensure that the data file (`SmallAreaIncomePovertyEstData.txt`) is accessible and correctly formatted as expected by the program. If there are issues with file paths or permissions, the program will provide an error message indicating the problem.