

Read and Process data from file

Rajeshwari Shreeraman

17.01.2019

Problem Statement

To write a Java program which can read input data from a CSV file and perform computations on it.

Implementation

In order to meet the goals specified, I have defined the following interfaces and classes to solve the problem

- **InputReaderAPI**
An interface which contains methods to read the data from the input files. This interface can be implemented to read data from different sources.
- **InputReaderSelector**
This class instantiates the implementation of the InputReaderAPI based on the type of input file.
- **WeatherData and FootballData**
These classes contain the data read from the files as objects. For each new type of data set, a new class can be defined to handle the data.
- **DataProcessor**
This class contains the actual methods which perform the specified operations on the data. In this case, the minimum temperature difference and the minimum difference in goals.

Summary

- As specified in the requirements, a Java program is written to perform appropriate operations on the data.
- The program has been verified to perform the calculations correctly.
- The code has been written with interfaces which can be implemented to handle data from different types of input files.
- The program also supports easy implementation of other operations as it has been written with a modular approach.

I enjoyed working on this interesting task. It gave me the opportunity to write a program which can be extended with additional features in future.