**CA3: File Handling Group C**

Eurostat keeps a wide range statistics on European countries that can be downloaded as CSV files.

This adapted file extract looks at the risk level for poverty and social exclusion in three countries for the years 2014 to 2017 inclusive. The file has the following fields:

|  |  |
| --- | --- |
| **Field** | **Type** |
| Year | int |
| Country | string |
| Risk Level(percentage of population at risk) | double |

An example copy with the data below may be found on Moodle.

2014,Denmark,17.9

2015,Denmark,17.7

2016,Denmark,16.8

2017,Denmark,17.2

2014,Ireland,27.7

2015,Ireland,26

2016,Ireland,24.2

2017,Ireland,22.7

2014,Greece,36

2015,Greece,35.7

2016,Greece,35.6

2017,Greece,34.8

You are required to write a program to use the data in this file to write two reports (you can use separate methods for these).

1. **Trend Report**: Enables a user to enter a country and get the figures for the four years printed out as follows:

**Denmark Trend Report**

2014 17.9

2015 17.7

2016 16.8

2017 17.2

2. **Comparative Poverty Risk Report** for the three countries. This should calculate the average poverty risk for each country over the four years.

**Country Average Poverty Risk**

Denmark 17.4

Ireland 25.96

Greece 35.52

Your program will include exception handling to deal with any IO related exception.

Sample Output

Enter Country:

Denmark

Trend Report for Denmark:

2014 17.9

2015 17.7

2016 16.8

2017 17.2

Comparative Poverty Risk Report

Country Average Risk

Denmark 17.4

Ireland 25.15

Greece 35.525

Press any key to continue...

**Checklist**

* Menu
* File connection
* Reading through all records
* Trend Report : Printing the Records for a country
* Comparative report: Averages for each country.
* Input validation and Exception Handling