Hi Viewers,

Thanks for evaluating my exercise and below are the explanations which I did,

Result from Terminal:

I have added 3 Java and 1 Junit classes as below:

- 1. Person -> Entity class
 - a. To add name, email, age and to add family relationship
- 2. People -> Mail Logic goes here i.e., Family Graph
 - a. To add Relationship between 2 Person
 - b. To retrieve Extended Family Size
- 3. CSV File Reader > Util class for reading your 2 CSV files
 - a. readPeople() => Reading input from people.csv
 - b. readRelationships() => Reading input from relationships.csv
- 4. PeopleTest -> Junit Java test class used to test our application

Exercise 1:

Implemented code and data structures that read the files and use them to build an in-memory data structure that represents the people in the file and their relationships with each other.

Achieved using Set & Map java util collection

Exercise 2 - Validate correct people loaded

com.wtc.interview.graph.PeopleTest > testPeopleMapIsCorrectlyPopulated

By checking the size of People object

Exercise 3 - Validate correct relationships loaded

com.wtc.interview.graph.PeopleTest > testPeopleRelationships

By testing getRelationshipNumber of each person

Exercise 4 - Write a method that calculates the size of the extended family

com.wtc.interview.graph.PeopleTest > testExtendedFamilySize

By checking the getExtendedFamilySize of each person

Reference:

Gradle Version: 5.2.1

Java Home: C:\Program Files\Java\jdk1.8.0_151

Project structure:

```
package com.wtc.interview.graph;
import org.junit.Test;
import com.opencay.CSVReader;
import com.opencay.wexpetions.CsvException;
import com.ovencay.wexpetions.CsvException;
import com.wtc.interview.entity.Person;
import static org.junit.Assert.*;
import java.io.FileReader;
import java.io.IoException;
import java.io.IoException;
import java.util.Heaph;
import
```