readCSVTest

read\_FileTest

*Precondition :*

A .csv file that is containing personal data of 237 Participants is available

*Precess:*

This csv file is read by read\_File method

*Expected Behavior:*

This file is read succesfully and the data are saved as list of string array. The length of the list is 238, because the Header of the .csv data is also saved as a String array.

*Actual Behavior:*

addParticipantTest

*Precondition :*

A csv file is read successfully and this data is saved as List of string array. The List contains 237 personal data of 237

Participants

*Precess:*  
User calls function "addParticipant" with this list as input.

*Expected Behavior:*  
A participant List that contains 310 Participants, a pair List that contains 73 Pairs is created. 164 Participants that is not in any pair are recorded. There is no duplicate in participant List as the total number of Participants is equal to alone Participant and 2 \* number of Pairs

*Actual Behavior:*

ParticipantTest

assignAgeRangeTest

*Precondition :*

Object "Participant" has been completely created. (All instances of this object are satisfied)

*Precess:*

This method is called in the constructor when the participant's object is created.

*Expected Behavior:*

AGERANGE is classified into the following nine categories:  
　　  age                               AGE\_RANGE(int)  
  0<= age <= 17                          LessThan18 (0)  
18<= age <= 23                          LessThan24 (1)  
24<= age <= 27                          LessThan28(2)  
28<= age <= 30                          LessThan31(3)  
31<= age <= 35                          LessThan36(4)  
36<= age <= 41                          LessThan41(5)  
42<= age <= 46                          LessThan47(6)  
47<= age <= 56                          LessThan57(7)  
57<= age                                    MoreThan57(8)  
The participants is given the above enumlations according to their age, which can also be obtained as integer values

*Actual Behavior:*

assignFoodPreferenceTest

*Precondition :*

Object "Participant" has been completely created. (All instances of this object are satisfied)

*Precess:*

foodPreference of this object is confirmed by this method with enumulation "FOOD\_PREFERENCE"

*Expected Behavior:*

AGERANGE is classified into the following nine categories:  
　　  Eingabe(String:foodPreference)                               FOOD\_PREFERENCE(Enum)  
                “meat“ meat

„none“ none

„veggie“ veggie

„vegan“ vegan

After using this method, foodPreference of the participant is saved as FOOD\_PREFERENCE(enum) instead of String.  
*Actual Behavior:*

PairTest

calculateAgeDiferrence

*Precondition :*

Object "Pair" has been completely created. (All instances of this object are satisfied). And each participant contains enumlation AGE\_RANGE as age.

*Precess:*

This method is called by Class ListManegement to buid the group. And it calculates the agediferrence of Pair. After that the result is returned in data typ int

*Expected Behavior:*

Two Particpant of Pair contain integer Value(0-8) of AGE\_RANGE. And the diffrence of these values is calculated. This result is absolut value. The calculation results of this test is 1 (|0-1|).

*Actual Behavior:*

calculateSexDiversity

*Precondition :*

Object "Pair" has been completely created. (All instances of this object are satisfied). And each participant contains enumlation SEX as gender.

*Precess:*

This method is called by Class ListManegement to buid the group. And it calculates the gender diversity of Pair. After that the result is returned in data typ double.

*Expected Behavior:*

If the gender of the pair is female and other gender, 0 is return value in double. Otherwise, the return value is 0.5 in double.

*Actual Behavior:*

calculateDistanceBetweenKitchens

*Precondition :*

Object "Pair" has been completely created. (All instances of this object are satisfied). And at least one participant has a kitchen available for use

*Precess:*

This method is called by Class ListManegement to buid the group. And it calculates the distance betweenKitchens of Pair. After that the result is returned in data typ double.

*Expected Behavior:*

If the pair owns only one available kitchen, the return value is 0. If both of the pair own a kitchen, the distance between the kitchens is calculated and this is output as the return value.

*Actual Behavior:*

calculateFoodPreferences

*Precondition :*

Object "Pair" has been completely created. (All instances of this object are satisfied). And And each participant contains enumlation food\_preference.

*Precess:*

This method is called by Class ListManegement to buid the group. And it calculates the score of foodpreferences. After that the result is returned in data typ int.

*Expected Behavior:*

Calculate the difference in absolute values of the integers that the foodpreference has. The result is output.

Input output

Meat Meat 0

*Actual Behavior:*