Proposed Tests

Run (MainTask.java)

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| Select File Type:  1-Json  2-CSV  => 1  Select your Choice  1-Add Person  2-Update Person's information  3-List All Persons  4-Delete Specific Person  5-Filter by any Field  6-Sort on any Field  => 1  Enter Person's First Name:  Ahmed  Enter Person's Last Name:  Nasser  Enter Person's Title:  Software Enginner  Enter Person's Phone:  012  Enter Person's Age:  24  Enter Person's Mail:  ahmednasser@gmail  New Person is added with name  Ahmed Nasser to JsonFile  Select your Choice  1-Add Person  2-Update Person's information  3-List All Persons  4-Delete Specific Person  5-Filter by any Field  6-Sort on any Field  => 3 | FirstName is : Ahmed  LastName is : Nasser  Title is : Software Enginner  Phone is : 01141612625  Age is : 24  Mail is : ahmednasser@gmail  Select your Choice  1-Add Person  2-Update Person's information  3-List All Persons  4-Delete Specific Person  5-Filter by any Field  6-Sort on any Field  => 2  Enter Person Mail to Update  ahmednasser@gmail  Enter Updated Person's First Name:  Ahmed  Enter Updated Person's Last Name:  Nasser  Enter Updated Person's Title:  Software Enginner  Enter Updated Person's Phone:  01141612625  Enter Updated Person's Age:  24  Enter Updated Person's Mail:  ahmednasseranwer@gmail.com |

Note: Green color that user enter into command line interface on eclipse

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| Sequence Test Cases Response into JsonFile, CSVFile and cli output | | |
| CSVFile(output)  Select File Type:  1-Json  2-CSV  =>2 | JsonFile(output)  Select File Type:  1-Json  2-CSV  => 1 | Test Choice (input)  Select your Choice  1-Add Person  2-Update Person's information  3-List All Persons  4-Delete Specific Person  5-Filter by any Field  6-Sort on any Field |
| //cli Output  File is Empty | //cli Output  File is Empty | [[3-List All Persons]] |
| //cli Output  Not Found Person with this mail, File is Empty | //cli Output  Not Found Person with this mail, File is Empty | [[4-Delete Specific Person]]  Enter Person Mail to Delete  ahmedali@gmailcom |
| //cli Output  Not Found Person with this mail, File is Empty | //cli Output  Not Found Person with this mail, File is Empty | [[5-Filter by any Field]]  Enter Field to filter from 1:6  1-firstName  2-lastName  3-title  4-phone  5-age  6-mail  6  Enter Value to Filter :  Player |
| //cli Output  File is Empty | //cli Output  File is Empty | [[6-Sort on any Field]]  Enter Field to sort from 1 to 6  1-firstName  2-lastName  3-title  4-phone  5-age  6-mail  5 |
| //cli Output  Not Found Person with this mail, File is Empty | //cli Output  Not Found Person with this mail, File is Empty | [[2-Update Person's information]]  Enter Person Mail to Update  ahmed  Enter Updated Person's First Name:  Ahmed  Enter Updated Person's Last Name:  Nasser  Enter Updated Person's Title:  Dev  Enter Updated Person's Phone:  011  Enter Updated Person's Age:  24  Enter Updated Person's Mail:  ahmednasser@gmail |
| //cli output  New Person is added with name Ahmed Nasser to CSVFile  // CSVFile Update  FirstName,LastName,Title,Phone,Age,Mail  Ahmed,Nasser,Developer,01141612625,24,ahmednasser@gmail | //cli output  New Person is added with name Ahmed Nasser to JsonFile  // JsonFile Update {"persons":[{"firstName":"Ahmed","lastName":"Nasser","title":"Developer","phone":"01141612615","age":"24","mail":"ahmednasser@gmail"}]} | [[1-Add Person]]  Enter Person's First Name:  Ahmed  Enter Person's Last Name:  Nasser  Enter Person's Title:  Developer  Enter Person's Phone:  01141612615  Enter Person's Age:  24  Enter Person's Mail:  ahmednasser@gmail |
| //cli output  New Person is added with name Hossam Hassan to JsonFile  //CSV Update  FirstName,LastName,Title,Phone,Age,Mail  Ahmed,Nasser,Developer,01141612625,24,ahmednasser@gmail  Hossam,Hassan,Player,012,41,mossamhassan@gmail | //cli output  New Person is added with name Hossam Hassan to JsonFile    // JsonFile Update  {"persons":[{"firstName":"Ahmed","lastName":"Nasser","title":"Developer","phone":"01141612615","age":"24","mail":"ahmednasser@gmail"},{"firstName":"Hossam","lastName":"Hassan","title":"Player","phone":"012","age":"41","mail":"mossamhassan@gmail"}]} | [[1-Add Person]]  Enter Person's First Name:  Hossam  Enter Person's Last Name:  Hassan  Enter Person's Title:  Player  Enter Person's Phone:  012  Enter Person's Age:  41  Enter Person's Mail:  mossamhassan@gmail |
| //cli Output  Person Exists, Another Person is founded with same Email or Phone Number | //cli Output  Person Exists, Another Person is founded with same Email or Phone Number | [[1-Add Person]]  Enter Person's First Name:  Khaled  Enter Person's Last Name:  Hassan  Enter Person's Title:  Banker  Enter Person's Phone:  012  Enter Person's Age:  41  Enter Person's Mail:  mossamhassan@gmail  " |
| //cli Output  FirstName is : Ahmed  LastName is : Nasser  Title is : Developer  Phone is : 01141612625  Age is : 24  Mail is : ahmednasser@gmail  FirstName is : Hossam  LastName is : Hassan  Title is : Player  Phone is : 012  Age is : 41  Mail is : mossamhassan@gmail | //cli Output  FirstName is : Ahmed  LastName is : Nasser  Title is : Developer  Phone is : 01141612625  Age is : 24  Mail is : ahmednasser@gmail  FirstName is : Hossam  LastName is : Hassan  Title is : Player  Phone is : 012  Age is : 41  Mail is : mossamhassan@gmail | [[3-List All Persons]] |
| //cli Output  not Found Person with this Mail | //cli Output  not Found Person with this Mail | [[4-Delete Specific Person]]  Enter Person Mail to Delete  khaledsalah@gmail |
| //cli Output  Person Name : Hossam Hassan with Mail : mossamhassan@gmail is Deleted | //cli Output  Person Name : Hossam Hassan with Mail : mossamhassan@gmail is Deleted | [[4-Delete Specific Person]]  Enter Person Mail to Delete  mossamhassan@gmail |
| //cli Output  FirstName is : Ahmed  LastName is : Nasser  Title is : Developer  Phone is : 01141612625  Age is : 24  Mail is : ahmednasser@gmail | //cli Output  FirstName is : Ahmed  LastName is : Nasser  Title is : Developer  Phone is : 01141612625  Age is : 24  Mail is : ahmednasser@gmail | [[3-List All Persons]] |
| //cli Output  Person Name : Ahmed Nasser with Mail : ahmednasser@gmail is Deleted | //cli Output  Person Name : Ahmed Nasser with Mail : ahmednasser@gmail is Deleted | [[4-Delete Specific Person]]  Enter Person Mail to Delete  ahmednasser@gmail |
| //cli Output  List of Person not have any Person | //cli Output  List of Person not have any Person | [[3-List All Persons]] |
| //cli output  New Person is added with name Khaled Osama to JsonFile  // CSVFile Update  FirstName,LastName,Title,Phone,Age,Mail  Khaled,Osama,Doctor,01123243453,24,[khaledOsama@gmail.com](mailto:khaledOsama@gmail.com) | //cli output  New Person is added with name Khaled Osama to JsonFile  // JsonFile Update {"persons":[{"firstName":"Khaled","lastName":"Osama","title":"Doctor","phone":"01123243453","age":"24","mail":" khaledOsama@gmail.com "}]} | [[1-Add Person]]  Enter Person's First Name:  Khaled  Enter Person's Last Name:  Osama  Enter Person's Title:  Doctor  Enter Person's Phone:  01123243453  Enter Person's Age:  24  Enter Person's Mail:  khaledOsama@gmail.com |
| // CSVFile Update  FirstName,LastName,Title,Phone,Age,Mail  Khaled,Ahmed,Doctor,011111111,24,khaledAhmed @gmail.com | // JsonFile Update {"persons":[{"firstName":"Khaled","lastName":"Ahmed","title":"Doctor","phone":"0111111111","age":"24","mail":" khaledAhmed@gmail.com "}]} | [[2-Update Person's information]]  Enter Person Mail to Update  khaledOsama@gmail.com  Enter Updated Person's First Name:  Khaled  Enter Updated Person's Last Name:  Ahmed  Enter Updated Person's Title:  Doctor  Enter Updated Person's Phone:  01111111111  Enter Updated Person's Age:  24  Enter Updated Person's Mail:  KhaledAhmed@gmail.com |
| //cli Output  Not found person with this mail | //cli Output  Not found person with this mail | [[2-Update Person's information]]  Enter Person Mail to Update  SamyAli@gmail.com  Enter Updated Person's First Name:  Samy  Enter Updated Person's Last Name:  Ali  Enter Updated Person's Title:  enginner  Enter Updated Person's Phone:  012345678  Enter Updated Person's Age:  24  Enter Updated Person's Mail:  samyali@gmail.com |
| //cli Output  Person Name : Khaled Ahmed with Mail : KhaledAhmed@gmail is Deleted | //cli Output  Person Name : Khaled Ahmed with Mail : KhaledAhmed@gmail is Deleted | [[4-Delete Specific Person]]  Enter Person Mail to Delete  KhaledAhmed@gmail.com |
| //cli Output  Not Found Person with this Mail, List Of Persons not have any Person | //cli Output  Not Found Person with this Mail, List Of Persons not have any Person | [[2-Update Person's information]]  Enter Person Mail to Update  AhmedNasser@gmail.com  Enter Updated Person's First Name:  Ahmed  Enter Updated Person's Last Name:  Nasser  Enter Updated Person's Title:  Developer  Enter Updated Person's Phone:  0126824233  Enter Updated Person's Age:  24  Enter Updated Person's Mail:  AhmedNasser@gmail.com |
| //cli Output  List of Persons not have any Person | //cli Output  List of Persons not have any Person | [[6-Sort on any Field]]  Enter Field to sort from 1 to 6  1-firstName  2-lastName  3-title  4-phone  5-age  6-mail  1 |
| //cli Output  Not Found value Player in Field title | //cli Output  Not Found value Player in Field title | [[5-Filter by any Field]]  Enter Field to Filter form 1 to 6  1-firstName  2-lastName  3-title  4-phone  5-age  6-mail  1  Enter Value to Filter  ali |
| /cli output  New Person is added with name Ahmed Nasser to CSVFile  //CSV Update  FirstName,LastName,Title,Phone,Age,Mail  Ahmed,Nasser, Developer ,01141612615,24,ahmednasser@gmail | //cli output  New Person is added with name Ahmed Nasser to JsonFile  // JsonFile Update {"persons":[{"firstName":"Ahmed","lastName":"Nasser","title":"Developer","phone":"01141612615","age":"24","mail":"ahmednasser@gmail"}]} | [[1-Add Person]]  Enter Person's First Name:  Ahmed  Enter Person's Last Name:  Nasser  Enter Person's Title:  Developer  Enter Person's Phone:  01141612615  Enter Person's Age:  24  Enter Person's Mail:  ahmednasser@gmail |
| //cli output  New Person is added with name Hossam Hassan to CSVFile  // CSVFile Update  FirstName,LastName,Title,Phone,Age,Mail  Ahmed,Nasser,Developer,01141612615,24,ahmednasser@gmail  Hossam,Hassan,Player,012,41,mossamhassan@gmail | //cli output  New Person is added with name Hossam Hassan to JsonFile  // JsonFile Update  {"persons":[{"firstName":"Ahmed","lastName":"Nasser","title":" Developer ","phone":"01141612615","age":"24","mail":"ahmednasser@gmail"},{"firstName":"Hossam","lastName":"Hassan","title":"Player","phone":"012","age":"41","mail":"mossamhassan@gmail"}]} | [[1-Add Person]]  Enter Person's First Name:  Hossam  Enter Person's Last Name:  Hassan  Enter Person's Title:  Player  Enter Person's Phone:  012  Enter Person's Age:  41  Enter Person's Mail:  mossamhassan@gmail |
| //cli output  New Person is added with name Khaled Said to CSVFile  //CSVFile Update  FirstName,LastName,Title,Phone,Age,Mail  Ahmed,Nasser,Dev,01141612615,24,ahmednasser@gmail  Hossam,Hassan,Player,012,41,mossamhassan@gmail  Khaled,Said,Doctor,010,21,khaledsaid@gmail | //cli output  New Person is added with name Khaled Said to JsonFile  // JsonFile Update  {"persons":[{"firstName":"Ahmed","lastName":"Nasser","title":"Dev","phone":"011","age":"24","mail":"ahmednasser@gmail"},{"firstName":"Hossam","lastName":"Hassan","title":"Player","phone":"012","age":"41","mail":"mossamhassan@gmail"},{"firstName":"Khaled","lastName":"Said","title":"Doctor","phone":"010","age":"21","mail":"khaledsaid@gmail"}]} | [[1-Add Person]]  Enter Person's First Name:  Khaled  Enter Person's Last Name:  Said  Enter Person's Title:  Doctor  Enter Person's Phone:  010  Enter Person's Age:  21  Enter Person's Mail:  khaledsaid@gmail |
| //cli Output wrong choice repeat until correct choice from 1 to 6  Enter Field to Sort form 1 to 6  1-firstName  2-lastName  3-title  4-phone  5-age  6-mail | //cli Output wrong choice repeat until correct choice //from 1 to 6  Enter Field to Sort form 1 to 6  1-firstName  2-lastName  3-title  4-phone  5-age  6-mail | [[6-Sort on any Field]]  Enter Field to Sort form 1 to 6  1-firstName  2-lastName  3-title  4-phone  5-age  6-mail  10  User Enter : 10 or "a" or "asdbjasd" |
| //cli Output  FirstName is : Khaled  LastName is : Said  Title is : Doctor  Phone is : 010  Age is : 21  Mail is : khaledsaid@gmail  FirstName is : Ahmed  LastName is : Nasser  Title is : Developer  Phone is : 01141612615  Age is : 24  Mail is : ahmednasser@gmail  FirstName is : Hossam  LastName is : Hassan  Title is : Player  Phone is : 012  Age is : 41  Mail is : mossamhassan@gmail | //cli Output  FirstName is : Khaled  LastName is : Said  Title is : Doctor  Phone is : 010  Age is : 21  Mail is : khaledsaid@gmail  FirstName is : Ahmed  LastName is : Nasser  Title is : Developer  Phone is : 01141612615  Age is : 24  Mail is : ahmednasser@gmail  FirstName is : Hossam  LastName is : Hassan  Title is : Player  Phone is : 012  Age is : 41  Mail is : mossamhassan@gmail | [[6-Sort on any Field]]  Enter Field to Sort form 1 to 6  1-firstName  2-lastName  3-title  4-phone  5-age  6-mail  5 |
| //cli output  New Person is added with name Mohamed Salah to CsvFile  //CSVFile Update  FirstName,LastName,Title,Phone,Age,Mail  Ahmed,Nasser,Developer,01141612625,24,ahmednasser@gmail  Hossam,Hassan,Player,012,41,mossamhassan@gmail  Khaled,Said,Doctor,010,21,khaledsaid@gmail  Mohmed,Salah,Player,013,21,mohamedsalah@gmail | //cli output  New Person is added with name Mohamed Salah to JsonFile  // JsonFile Update  {"persons":[{"firstName":"Ahmed","lastName":"Nasser","title":"Developer","phone":"01141612625","age":"24","mail":"ahmednasser@gmail"},{"firstName":"Hossam","lastName":"Hassan","title":"Player","phone":"012","age":"41","mail":"mossamhassan@gmail"},{"firstName":"Khaled","lastName":"Said","title":"Doctor","phone":"010","age":"21","mail":"khaledsaid@gmail"},"},{"firstName":"Mohamed","lastName":"Salah","title":"Player","phone":"013","age":"21","mail":"mohamedsalah@gmail"}]} | [[1-Add Person]]  Enter Person's First Name:  Mohamed  Enter Person's Last Name:  Salah  Enter Person's Title:  Player  Enter Person's Phone:  013  Enter Person's Age:  21  Enter Person's Mail:  mohamedsalah@gmail |
| //cli Output  FirstName is : Hossam  LastName is : Hassan  Title is : Player  Phone is : 012  Age is : 41  Mail is : mossamhassan@gmail  FirstName is : Mohamed  LastName is : Salah  Title is : Player  Phone is : 013  Age is : 21  Mail is : mohamedsalah@gmail | //cli Output  FirstName is : Hossam  LastName is : Hassan  Title is : Player  Phone is : 012  Age is : 41  Mail is : mossamhassan@gmail  FirstName is : Mohamed  LastName is : Salah  Title is : Player  Phone is : 013  Age is : 21  Mail is : mohamedsalah@gmail | [[5-Filter by any Field]]  Enter Field to Filter form 1 to 6  1-firstName  2-lastName  3-title  4-phone  5-age  6-mail  3  Enter Value to Filter  Player |
| //cli output  Not found value Officer in field title | //cli output  Not found value Officer in field title | [[5-Filter by any Field]]  Enter Field to Filter form 1 to 6  1-firstName  2-lastName  3-title  4-phone  5-age  6-mail  3  Enter Value to Filter  Officer |