



Problem statement

- Prompt User For Inputs
- > Display Greeting, Validate Their Date Of Birth And Calculate Age
- Convert Distance Into Distance Km To Miles
- Convert Age Into Different Units Of Time And Literals





Solution

- Create Different Classes To Handle Different Problems Defined In The Problem Statement
- 'Prompt': Handles User Input And Capitalizes Names
- > 'DateValidator': Validates The Date Of Birth Input.
- 'NumberValidator': Checks If Input Is Numeric.
- 'MilesCalculator': Converts Distance From Kilometers To Miles.
- ➤ 'AgeCalculator': Calculates Age In Various Formats.



Other Options

Using java libraries for date validation. e.g. SimpleDateFormat dateFormat = new SimpleDateFormat("dd/MM/yyyy");



Decisions

- > Use String class **substring()** method to format names
- > Use String class **split()** method to help validate the date
- Use Short circuit operators to help verify data type and format of inputs
- Use recursion to help handle invalid inputs
- Keep it simple with arithmetic calculations when converting Age
- Use java libraries to convert integers





Summary

- By implementing different methods and classes the problem was solved in a modular way
- During development, research was done and lessons were learnt through trial and error
- Through use, more decisions can be made about how the program and can be scaled
- Overall, the challenge helped as a means to further the understanding of data types, arithmetic calculations, methods and classes, as well java libraries.



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