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PE 1.1 HealthProfile

HealthProfile
<ul style="list-style-type: none">- personFirstName: String- personLastName: String- personGender: String- dayOfBirth: String- monthOfBirth: String- yearOfBirth: String- personHeight: Int- personWeight: Int
<ul style="list-style-type: none">+ readInput(): void+ writeOutput(): void+ HealthProfile(String newFirstName, String newLastName, String newGender, String newDayOfBirth, String newMonthOfBirth, String newYearOfBirth, Int newHeight, Int newWeight)+ setFirstName(String newFirstName): void+ setLastName(String newLastName): void+ setGender(String newGender): void+ setDayOfBirth(String newDayOfBirth): void+ setMonthOfBirth(String newMonthOfBirth): void+ setYearOfBirth(String newYearOfBirth): void+ setHeight(Int newHeight): void+ setWeight(Int newWeight): void+ getFirstName(): String+ getLastName(): String+ getGender(): String+ getDayOfBirth(): String+ getMonthOfBirth(): String+ getYearOfBirth(): String+ getHeight(): Int+ getWeight(): Int+ calculateAge(): Int+ calculateMaxHeartRate(): Int+ targetHeartRate50(): Int+ targetHeartRate85(): Int+ calculateBMI(): Int



PE 1.2 Rectangle

Rectangle
- Width: double - Height: double
+ readInput(): void + writeOutput(): void + Rectangle() + Rectangle(double newWidth, double newHeight) + setWidth(double newWidth): void + setHeight(double newHeight): void + getWidth(): double + getHeight(): double + getArea(double width, double height): double + getPerimeter(double width, double height): double

PE 1.3 SavingsAccount

SavingsAccount
- annualInterestRate: static double - savingsBalance: double
+ readInput(): void + writeOutput(): void + SavingsAccount(double newAnnualInterestRate, double newSavingsBalance): void + getSavingsBalance(): double + setSavingsBalance(double newSavingsBalance): void + getannualInterestRate(): double + setAnnualInterestRate(double newAnnualInterestRate): void + calculateMonthlyInterestRate(): void + modifyInterestRate(newRate: double): static void



PE 1.4 Date

Date
- Day: int - Month: int - Year: int
+ readInput(): void + writeOutput(): void + Date(int newDay, int newMonth, int newYear): void + getDay(): int + setDay(int newDay): void + getMonth(): int + setMonth(int newMonth): void + getYear(): int + setYear(int newYear): void + toString(): String - validateDay(int Day, int Month, int Year): boolean - validateMonth(int Month): boolean - validateYear(int Year): boolean + isLeapYear(int Year): boolean