

i.)

Create a class `Rectangle` that has the length and width instance variables, each of which defaults to 1. Provide methods that calculate the rectangle's perimeter and area. It has `setWidth()`, `setHighth()`, `getWidth()`, and `getHighth()` methods for both length and width. Each set method for length and width should verify that length and width are floating-point numbers larger than 0.0 and less than 20.0. Each get method shows the values of length and width. Also, the `Rectangle` class has `calcuatePermeter()` and `calculateArea()` methods. Write a class `TestRectangle` to test the class `Rectangle`. In the `TestRectangle`, each method of `Rectangle` class needs to be called with the input entered from screen and display the results.

ii.)

Create a class `Employee` that includes three instance variables—a first name (type `String`), a last name (type `String`) and a monthly salary (double). Provide a constructor that initializes the three instance variables. If the monthly salary is not positive, do not set its value and display an error message. Write a class `TestEmployee` that demonstrates the class `Employee`. Create two employee objects, and set each employee's last name, first name, and monthly salary using the input entered from screen and display each employee's last name, first name, and monthly salary.

e.x.)

ii.)

Create a class `Employee` that includes three instance variables—a first name (type `String`), a last name (type `String`) and a monthly salary (double). Provide a constructor that initializes the three instance variables. If the monthly salary is not positive, do not set its value and display an error message. Write a class `TestEmployee` that demonstrates the class `Employee`. Read the first name, last name and monthly salary of two employees from screen input, create two employee objects using the constructor, and display each employee's last name, first name, and monthly salary using `getFirstName()`, `getLastName()` and `getSalary()` operations.