## **Problem Set 4 Exercise #21: My Power Function**

Reference: Lecture 12 notes
Learning objective: Recursion

**Estimated completion time**: 20 minutes

## **Problem statement:**

Write a program  $PS4_{Ex21_MyPower.java}$  to read x (a real number of **double** type) and n (a non-negative integer), and call a static recursive method

to compute  $\mathbf{x}^n$ .

You should not use any loop structures (for, while or do-while loop) in your program.

## Sample run #1:

```
Enter x and n: 2 4 myPow(2.0, 4) = 16.00
```

## Sample run #2:

```
Enter x and n: 2.5 2 myPow(2.5, 2) = 6.25
```