Homework – Math Class

Use the Java API and other online resources to investigate the Java Math class.

1. Which package does the Math class belong to?
   java.lang

2. Name the methods that find the absolute value? How many of such methods are there?
   Math.abs()
   4 methods

3. Name the method that calculates the power of a number, e.g. 2^3 or x^4.
   Math.pow();

4. Name the method that can be used to generate a random number.
   Math.random();

5. How do you call these methods in Math class? (Go online to look for examples)
   import java.lang.Math;

Let's try to write some code now!

6. **RandomNum.java** Write a program that will print out a random number between 0 and 100.

7. **Exponent.java** Write a program that ask user for a base *b*, and an exponent *e*, then print out the power b^e.

8. **AbsValue.java** Write a program that asks user for a number, then outputs the absolute value of that number.