

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?
`abs()`, static double, static float, static int, static long
5
3. Name the method that calculates the power of a number, e.g. 2^3 or x^4 .
`pow()`
4. Name the method that can be used to generate a random number.
`random()`
5. How do you call these methods in Math class? (Go online to look for examples)
`Math.method()`

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.