

Java Beginner Tutorial: Using Variables

Part 1: Running a Java Program in PowerShell

Java has a two-step process before you see any output.

Step 1 — Compile:

```
javac <filename>
```

Step 2 — Run (no extension!):

```
java <filename = no extension>
```

Part 2: The Core Data Types

String — text, double quotes

```
String name_1 = "Jack";  
String name_2 = "Jill";  
System.out.println("name_1: " + name_1);  
System.out.println("name_2: " + name_2);
```

int — whole numbers

```
int score = 42;  
System.out.println("score: " + score);
```

double — decimal numbers

```
double price = 9.99;  
System.out.println("price: " + price);
```

boolean — true or false

```
boolean isRaining = true;  
System.out.println("isRaining: " + isRaining);
```

char — single character, single quotes

```
char answer = 'Y';  
System.out.println("answer: " + answer);
```

Part 3: All Together

```
public class HelloWorld {
    public static void main(String[] args) {

        String name_1 = "Jack";
        String name_2 = "Jill";
        int score = 42;
        double price = 9.99;
        boolean isRaining = true;
        char answer = 'Y';

        System.out.println("name_1: " + name_1);
        System.out.println("name_2: " + name_2);
        System.out.println("score: " + score);
        System.out.println("price: " + price);
        System.out.println("isRaining: " + isRaining);
        System.out.println("answer: " + answer);
    }
}
```

Part 4: Key Rules

- Variable names are **case-sensitive**
- Names can't start with a number
- Use **camelCase** by convention
- char → single quotes 'Y' | String → double quotes "hello"
- int won't accept decimals

What's Next?

- **Math with variables**
 - **Getting user input**
 - **If statements**
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