

## Practice Exercise #09: Vaccination Version 2

[http://www.comp.nus.edu.sg/~cs1020/4\\_misc/practice.html](http://www.comp.nus.edu.sg/~cs1020/4_misc/practice.html)

Reference: Week 2 OOP Part 1

### Objectives:

1. Using **Scanner** class: **nextLine()**, **nextInt()**, **nextBoolean()**, **hasNextLine()**
2. Knowing the difference between **next()** and **nextLine()**
3. Using escape sequences in **println()** statement
4. Handling the newline character
5. Using **control-d** to end input

### Task statement:

This is a follow-up of practice exercise #08, so you are advised to complete that exercise before attempting this.

In practice exercise #04, you read the number of children before reading in the data of each child. In this exercise, instead of being given the number of children before-hand, you are to keep reading the data until there is no more data to read (user enters **control-d** at the Name prompt to end data). In UNIX, **control-d** is used to end interactive data input. You are to use the **hasNextLine()** method.

Your program **Vaccination\_V2.java** should do the following:

- For each child, read the child's name, age, and whether the child is vaccinated for chickenpox.
- All input data read are to be echoed (see sample run below).
- Report the average age of the children and express the value in 2 decimal places.
- Report the percentage of children who are vaccinated for chickenpox, in 2 decimal places.

**Sample run:**

```
Name: Peter Wong
Name is "Peter Wong"
Age: 6
Age is 6
Vaccinated for chickenpox? True
Vaccinated for chickenpox
Name: Ali Ahmad
Name is "Ali Ahmad"
Age: 3
Age is 3
Vaccinated for chickenpox? false
Not vaccinated for chickenpox
Name: Soh Yue Ling
Name is "Soh Yue Ling"
Age: 7
Age is 7
Vaccinated for chickenpox? TRUE
Vaccinated for chickenpox
Name: (user pressed control-d here)
Average age is 5.33
Percentage of children vaccinated is 66.67%
```