

## Problem Set 2 Exercise #05: Valid Age

**Reference:** Lecture 4 notes

**Learning objective:** Repetition statements

**Estimated completion time:** 15 minutes

### Problem statement:

After learning repetition statements, we can do some simple data validation.

Suppose a program is to read in an integer value representing the age of a person. It makes sense that the value should be within a reasonable range, say 1 to 100, both inclusive. If the user enters an invalid input outside this range, the program should ask for the age again.

Write a program **PS2\_Ex05\_Age.java** to perform this task and also to count how many times the user has entered the input.

A tip is given at the end of this page.

### Sample run #1:

```
Enter age: 17
Your age is 17
Number of attempts = 1
```

### Sample run #2:

```
Enter age: -5
Enter age: 101
Enter age: 32
Your age is 32
Number of attempts = 3
```

### Useful tip:

The termination of the loop depends on user input (i.e. when a valid input will be given). Therefore it's more natural to engage a *while* loop in this situation.