# Exercises 1

## Exercise #1 Min/Max using Streams

Write a program to read integer values from user and save in a List. Use streams to find the min and max values. Max and min methods expects a comparator to be passed. Use Comparator.naturalOrder() to compare integers in the natural order. Use different comparators for different data types

## Exercise #2 forEach

Write a program to read integer values from user and save in a List. Find the sum of all elements of the list using forEach loop. Find the average using the computed sum.

## Exercise #3 Lambdas, filter, forEach, sorted, Optional

1. Calculate the average age of the employees using lambda expressions. Create an Employee class with fields name as String and age as int. Add a constructors and getter methods. Create an ArrayList of Employees. Display the name and age of all the employees using **forEach** using lambda expression. Use lambda expression and streams to calculate the average of the Employee’s age.
2. Find and display the list of employees whose age is less than 30 using streams and filter.
3. Create a new list where employees are sorted by age in ascending order.
4. Return the details of the first employee/element whose name is Bob if exists. Use findFirst() and Optional. If it doesn’t exist, then print “Employee does not exist”. (Try adding Employees with the same name and check the output. Also, try to find out what is the output when user doesn’t exist.)