

Tutorial 1-

- Continuously keep track of: Running Total + Average + Smallest number + Largest number
- How to Round float/decimal (input) → whole number

Tutorial 2-

- Get a single number + Determine if prime number [E]
- Get only 3 integers + Determine the smallest number + largest number [b]
- Get a string + Determine if there are repeat characters in the string + Exit loop without Break OR Return
- Get two numbers that represent a given range + (Pattern) Output max five numbers per line [c]

Tutorial 3-

- Get two number representing numerator and denominator + Convert negative numbers \leftrightarrow positive numbers + Output as fraction [Q2]
- Create two fraction objects + Compare two objects from same class + Output fraction object equal [Q5]

Tutorial 4-

- Get two objects representing a numerator and denominator + Add two Fractions + Output as fraction [Q1]
- Get two objects representing a numerator and denominator + Determine if fraction is zero + Output as fraction [Q2]
- Get two objects representing a numerator and denominator + Convert fraction (int) to decimal [Q4]
- Get object representing a numerator and denominator + Simplify fraction [Q6]

Tutorial 5-

- Get a random array of integer numbers
- Get array of random integer numbers + Determine smallest number
- Get array of random integer numbers + Determine largest number
- Get array of random integer numbers + Determine average number
- Get array of random integer numbers + Display numbers in one line with spaces in between

Tutorial 7-

- Create a GUI with a button, text field, and label inside container+ Determine if there are repeated characters in string
- Get array of integers + Sort by through Insertion sort
- Get array of integers + Sort by through Insertion sort + Determine whether a certain integer exist in array using Binary search

Tutorial 8-

- Create an exception class

Tutorial 9-

- Get input from TextFile + Write input to another TextFile
- Get input from TextFile + Determines number of lines in TextFile

- Get input from TextFile + Determines number of words in TextFile
- Get input from TextFile + Determines number of characters in TextFile
- Get input from TextFile + Add to arrayList of objects
- Get ArrayList of objects + Write instance variables to another TextFile

Tutorial 10-

- Get a string + Add string to arrayList
- Get arrayList of strings + Determine first full name and last full name in alphabetical order
- Get arrayList of strings + Sort by alphabetical order (ascending order) through Selection sort