# Scenario

Write a program that will capture 2 things from keyboard.

1. Count of integers
2. Input each integer one by one

# Assignment 1

Code should capture all the integers and create an array. Output should be sorted array.

# Assignment 2

Re-implement above (assignment 1) for floating point numbers.

# Assignment 3

Output maximum and minimum number from an array of integers.

# Assignment 4

Remove number from an array from specific index position. Program should ask (take input) user for specific index position via keyboard. If index position is out-of-bounds then, program should display error message in console.

# Assignment 5

Insert number in array at specific index position. Program should ask (take input) user for specific index position via keyboard. If index position is out-of-bounds then, program should display error message in console.

**import** java.util.ArrayList;

//import java.util.Collection;

**import** java.util.Collections;

**import** java.util.Scanner;

**public** **class** Practice {

**public** **static** **void** main(String[] args)

{

Scanner scan = **new** Scanner(System.***in***);

System.***out***.println("Enter string");

ArrayList<Float> obj1 = **new** ArrayList<>();///Creating Arraylist of float values

System.***out***.println("How many float values do want to enter : ");

**for**(**int** i = scan.nextInt(); i > 0 ; i--){

**float** floatvalue= scan.nextFloat();

obj1.add(floatvalue);

}

Collections.*sort*(obj1);

ArrayList<Integer> obj = **new** ArrayList<>();//Creating Arraylist of integer values

//char a;

System.***out***.println("How many integers do want to enter : ");

**for**(**int** i = scan.nextInt(); i > 0 ; i--){

**int** n = scan.nextInt();

obj.add(n);

}

Collections.*sort*(obj);//sort the ArrayList

System.***out***.println(obj);//sorted arrayList

System.***out***.println(Collections.*max*(obj));//finds Maximum value in arraylist

System.***out***.println(Collections.*min*(obj));// finds Minimum value in arraylist

System.***out***.println("enter index number to remove element:");

**try**

{

**int** n1 = scan.nextInt();

obj.remove(n1);///removing value at specific index

System.***out***.println(obj);

}

**catch**(IndexOutOfBoundsException e)

{

System.***out***.println("enterd indext number is invalid");

}

System.***out***.println("enter index number to insert value :");

**try**

{

**int** n1 = scan.nextInt();

obj.add(n1, 19);//adding value at specific index

System.***out***.println(obj);

}

**catch**(IndexOutOfBoundsException e)

{

System.***out***.println("enterd indext number is invalid");

}

}

}