# 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.

package com.cts;

import java.util.Scanner;

public class ArrayInteger {

public static void main(String[] args) {

int limit,flag=0,location=0;

int[] array=new int[20];

Scanner scanner=new Scanner(System.in);

System.out.println("Enter the limit of numbers:");

limit=scanner.nextInt();

System.out.println("Enter Elements:");

for(int i=0;i<limit;i++) {

array[i]=scanner.nextInt();

}

for(int i=0;i<limit;i++) {

for(int j=i+1;j<limit;j++) {

if(array[i]>array[j] )

{

int t=array[i];

array[i]=array[j];

array[j]=t;

}

}

}

for(int i=0;i<limit;i++) {

System.out.println(array[i]);

}

System.out.println("The minimum value is "+array[0]);

System.out.println("The maximum value is "+array[limit-1]);

System.out.println("Enter the array index to be deleted");

int arrayIndex=scanner.nextInt();

for(int i = 0;i<limit;i++)

{

if(i==arrayIndex)

{

flag=1;

location = i;

break;

}

else

{

flag=0;

}

}

if(flag==1) {

for(int i=location+1;i<limit;i++)

{

array[i-1]=array[i];

}

System.out.println("After Deletion:");

for(int i=0;i<limit-1;i++)

{

System.out.println(array[i]);

}

}

else {

System.out.println("Array index not found");

}

}

}

# Assignment 2

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

package com.cts;

import java.util.Scanner;

public class ArrayFloat {

public static void main(String[] args) {

int limit;

float[] array=new float[20];

Scanner scanner=new Scanner(System.in);

System.out.println("Enter the limit of numbers:");

//limit=Integer.parseInt(scanner.next());

limit=scanner.nextInt();

System.out.println("Enter Elements:");

for(int i=0;i<limit;i++) {

array[i]=scanner.nextFloat();

}

for(int i=0;i<limit;i++) {

for(int j=i+1;j<limit;j++) {

if(array[i]>array[j] )

{

float t=array[i];

array[i]=array[j];

array[j]=t;

}

}

}

for(int i=0;i<limit;i++) {

System.out.println(array[i]);

}

}

}

# Assignment 3

Output maximum and minimum number from an array of integers.

package ex2;

import java.util.Arrays;

import java.util.Scanner;

public class Exmp5 {

public static void main(String[] args) {

int n;

Scanner sc=new Scanner(System.in);

n=sc.nextInt();

int[] a = new int[n];

int[] sorta = new int[n];

for(int i=0;i<n;i++) {

a[i] = sc.nextInt();

}

Arrays.sort(a);

System.out.println("Min is" + a[0]);

System.out.println("Max is" + a[n-1]);

}

}

# 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.