1. **Calculate the Odd-Even number by given input during runtime.**

package com.sofiqul54;

import java.util.Scanner;

public class OddEven {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

isOddEven(sc.nextInt());

}

static void isOddEven(int num) {

if (num == 0) {

System.out.println(num + " is ZERO");

} else {

if (num % 2 == 0) {

System.out.println(num + " is Even Number");

} else {

System.out.println(num + " is ODD Number");

}

}

}

}

1. **Calculate the largest number among the three numbers.**

package com.sofiqul54;

import java.util.Scanner;

public class LargestNumbers {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

isLargestNumber(sc.nextInt(), sc.nextInt(), sc.nextInt());

}

static void isLargestNumber(int n1, int n2, int n3) {

if (n1 > n2 && n1 > n3) {

System.out.println(n1 + " is Largest Number");

} else if (n2 > n1 && n2 > n3) {

System.out.println(n2 + " is Largest Number");

} else if (n3 > n1 && n3 > n2) {

System.out.println(n3 + " is Largest Number");

} else {

System.out.println(n1 + ", " + n2 + ", " + n3 + " are all equal Numbers");

}

}

}

1. **Giving input in runtime and checked weather it is prime or not.**

package com.sofiqul54;

import java.math.BigInteger;

import java.util.Scanner;

public class PrimeWithScanner {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

isPrime(sc.nextInt());

}

static void isPrime(int number) {

if (BigInteger.valueOf(number).isProbablePrime(1)) {

System.out.print(number + " is Prime ");

} else {

System.out.print(number + " is Not Prime ");

}

}

}

1. **Calculate factorial value of a number.**

package com.sofiqul54;

import java.math.BigInteger;

import java.util.Scanner;

public class FactorialWithScanner {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

getFactorials(sc.nextInt());

}

static void getFactorials(int n) {

BigInteger f = BigInteger.valueOf(1);

for (int i = 1; i <= n; i++) {

f = f.multiply(BigInteger.valueOf(i));// f= f \* i

}

System.out.println(f);

}

}

1. **Calculate an Array Which has five value and display its value and finally display it’s total.**

package com.sofiqul54;

public class ArrayDisplayAndSum {

public static void main(String[] args) {

int[] arr = {4, 2, 1, 8, 9};

int sum = 0;

for (int i : arr) {

sum += i;

System.out.print(i + " ");

}

System.out.println("Sum: " + sum);

}

}

1. **Create a two Dimension Array and display its value and finally display it’s total.**

package com.sofiqul54;

public class TwoDimentionalArraySum {

public static void main(String[] args) {

int[][] twoD = {

{2, 8, 6},

{1, 5, 9}

};

int sum = 0;

for (int[] oneD : twoD) {

for (int i : oneD) {

System.out.print(i + " ");

sum += i;

}

System.out.println();

}

System.out.println("Sum: " + sum);

}

}

1. **Retrieve Email address from a text field and validate whether “@” symbol available or not and retrieve password from a text field and validate whether it contains 7 characters or not.**

package com.sofiqul54;

import java.util.\*;

public class EmailValid {

public static void main(String[] args) {

Scanner s = new Scanner(System.in);

System.out.println("Enter Email");

String email = s.nextLine();

int atpos = email.indexOf("@");

int dotpos = email.indexOf(".");

if (atpos > 0 && dotpos < email.length() - 1 && atpos < dotpos - 1) {

System.out.println("Email is valid");

} else {

System.out.println("Email is invalid");

}

}

}

………………………………………………….PassWord………………………………………………………………

package com.sofiqul54;

import java.util.Scanner;

public class PassWordEx {

static Scanner sc = new Scanner(System.in);

public static void main(String[] args) {

String password = sc.nextLine();

if (password.length() >= 7) {

System.out.println("Valid");

} else {

System.out.println("Not Valid");

}

}

}

1. **Find out 1 1 2 3 5 8 13 21 34 55 ………….**

package com.sofiqul54;

import com.coderbd.\*;

public class Febonacci {

public static void main(String[] args) {

int a, b, c;

for (a = 0, b = 1, c = 0; c <= 100; a = b, b = c, c = a + b) {

System.out.print(c + " ");

}

}

}

1. **Create an Array which has five value and display its value ascending or descending order.**

package com.sofiqul54;

import java.util.Arrays;

import java.util.Collections;

import java.util.Scanner;

public class OneDFromScannerAseendingDecending {

// Array Print Directly

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

int arraySize = sc.nextInt();

Integer[] arr = new Integer[arraySize];

for (int i = 0; i < arr.length; i++) {

arr[i] = sc.nextInt();

}

Arrays.sort(arr);

Collections.reverse(Arrays.asList(arr));

System.out.println(Arrays.toString(arr));

}

}

1. **Find out the Max-Min number among n number of values.**

package com.sofiqul54;

import java.util.Arrays;

import java.util.Collections;

import java.util.Scanner;

public class MaxMinFromNNumbers {

static Scanner sc = new Scanner(System.in);

public static void main(String[] args) {

int n = sc.nextInt();

Integer[] arr = new Integer[n];

for (int i = 0; i < arr.length; i++) {

arr[i] = sc.nextInt();

}

Arrays.sort(arr);

System.out.println("Min: " + arr[0]

+ " Max: " + arr[arr.length - 1]);

}

}

1. **Find out the ten unique Random numbers.**

package com.sofiqul54;

import java.util.HashSet;

import java.util.Random;

import java.util.Set;

public class Random10UniqueNumbers {

public static void main(String[] args) {

Random rand = new Random(100);

Set<Integer> unique = new HashSet();

for (int i = 1; i <= 10; i++) {

int num = rand.nextInt(50) + 50;

unique.add(num);

}

for (int i : unique) {

System.out.println(i + " ");

}

}

}

1. **Find out the conditional sum until input Zero (0).**

package com.sofiqul54;

import com.coderbd.\*;

import java.util.Scanner;

public class SumButExitWithZero {

public static void main(String[] args) {

int sum = 0;

Scanner sc = new Scanner(System.in);

int n = 0;

System.out.println("Please enter a Num: ");

do {

n = sc.nextInt();

sum += n;

} while (n != 0);// jodi 0 dei, then nicher line dorkar nei

// sum += n;

System.out.println("Sum: " + sum);

}

}