public class q1 { Topic 1a

    public static void main(String[] args) {

        System.out.println("Name: Tonmoy");

        System.out.println("Address: Horogram Paschim Para, Rajpara, Rajshahi");

    }

}

import java.util.Scanner;

Topic 1b

public class q2 {

    public static void main(String[] args) {

        int a = 0, b = 0;

        Scanner input = new Scanner(System.in);

        System.out.print("Enter 2 values : ");

        a = input.nextInt();

        b = input.nextInt();

        if (a > b) {

            System.out.println("The Bigger value is : " + a);

        } else {

            System.out.println("The Bigger Value is : " + b);

        }

        input.close();

    }

}

import java.util.Scanner;

public class q3 {

    public static void main(String[] args) { Topic 1c

        int[] ax = new int[10];

        int sum = 0;

        Scanner s = new Scanner(System.in);

        System.out.print("Enter the array Values: ");

        for (int i = 0; i < 10; i++) {

            ax[i] = s.nextInt();

        }

        int min = ax[0], max = ax[1];

        for (int i = 0; i < 10; i++) {

            if (min > ax[i]) {

                min = ax[i];

            }

            if (ax[i] > max) {

                max = ax[i];

            }

            sum += ax[i];

        }

        System.out.println("The Maximum Value is : " + max);

        System.out.println("The Minimum Value is " + min);

        System.out.println("The Average value is " + sum / 10);

        s.close();

    }

}

package q1;

Topic 2a

public class q1 {

    public static void main(String[] args) {

        System.out.println("Hello world Original");

        hello();

        hello2();

        hello3();

    }

    public static void hello() {

        System.out.println("Hello World in public method within class");

    }

    private static void hello2() {

        System.out.println("Hello World in private method within class");

    }

    protected static void hello3() {

        System.out.println("Hello World in protected method within class");

    }

    static void hello4() {

        System.out.println("Hello World in default method within class");

    }

}

package q1;

public class q1Two { Topic 2b

    public static void main(String[] args) {

        System.out.println("Hello World from another class within package");

        q1.hello();

        // The method hello2() from the type q1 is not visible

        // q1.hello2();

        q1.hello3();

        q1.hello4();

    }

}

package q2; Topic 2c

import q1.\*;

public class q2 extends q1 {

    public static void main(String[] args) {

        System.out.println("Hello from subclass outside the package");

        q2.hello();

        // The method hello2() from the type q1 is not visible

        // q2.hello2();

        q2.hello3();

        // The method hello4() from the type q1 is not visible

        // q2.hello4();

    }

}

class q21 {

    public static void main(String[] args) {

        q1.hello();

        // The method hello2() from the type q1 is not visible

        // q1.hello2();

        // The method hello3() from the type q1 is not visible

        // q1.hello3();

        // The method hello4() from the type q1 is not visible

        // q1.hello4();

    }

}

public class solve {

    private static void add(int x, int y) {

        int sum = x + y; Topic 3

        System.out.println("The sum is " + sum);

    }

    public static void main(String[] args) {

        add(12, 13);

    }

}

class solve2 {

    // The method add(int, int) is undefined for the type solve2

    public static void main(String[] args) {

        // add(12, 13);

    }

}

public class solve {

    public static void add(int x, int y) {

        int sum = x + y; Topic 4

        System.out.println("The sum is " + sum);

    }

    public void add2(int x, int y) {

        int sum = x + y;

        System.out.println("The sum is " + sum);

    }

    public static void main(String[] args) {

        // Cannot make a static reference to the non-static method add2(int, int) from

        // the type solve

        // add2(12, 13);

        add(12, 13);

    }

}

public class solve {

    public static void main(String[] args) {

        String h = "Computer", H = "Science"; Topic 5

        System.out.println("The 2 index is " + h.charAt(2));

        System.out.println("the output is " + h.compareTo(H));

        if (h.compareTo(H) < 0) {

            System.out.println("lexicographically less than the other string ");

        }

        System.out.println(h.concat(H));

        if (h.equals(H)) {

            System.out.println("the strings are equal");

        } else {

            System.out.println("the strings are not equal");

        }

        if (h.isEmpty()) {

            System.out.println("the string is empty");

        } else {

            System.out.println("The string is not empty ");

        }

        System.out.println("The Length of The String : " + h.length());

        System.out.println("Replaced r with R : " + h.replace('r', 'R'));

        System.out.println("the substring is : " + h.substring(0, 3));

        System.out.println("The Uppercase is : " + h.toUpperCase());

        System.out.println("The Lowercase is : " + h.toLowerCase());

        System.out.println("The toString is : " + h.toString());

        System.out.println("The trimmed string is " + h.trim());

    }

}

import java.util.Arrays;

public class solve {

    public static int[] Initarray() { Topic 6

        return new int[] { 5, 4, 3, 2, 1, 7, 6, 9 };

    }

    public static int[] sortedArray(int[] arr) {

        Arrays.sort(arr);

        return arr;

    }

    public static void PrintArray(int[] arr) {

        for (int i : arr) {

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

        }

    }

    public static void main(String[] args) {

        int[] h = Initarray();

        System.out.println("Before Sorting : ");

        PrintArray(h);

        int[] m = sortedArray(h);

        System.out.println("\nAfter Sorting : ");

        PrintArray(m);

        System.out.print("\n");

    }

}

import java.util.Arrays;

public class solve { Topic 7

    public static int FindBig(int... ax) {

        int max = ax[2];

        int a = 0;

        for (int i = 0; i < a + 4; i++) {

            // System.out.print(ax[i] + " ");

            if (ax[i] > max)

                max = ax[i];

        }

        return max;

    }

    public static void main(String[] args) {

        int[] a = { 2, 3, 7, 1, 4, 9, 7 };

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

        System.out.println("The Big Value of First four numbers of the array is : " + FindBig(a));

    }

}

import java.util.ArrayList;

public class solve {

    public static void main(String[] args) {

        ArrayList<Integer> ax = new ArrayList<>(); Topic 8

        ax.add(10);

        ax.add(50);

        ax.add(70);

        ax.add(30);

        System.out.println(ax);

        ax.add(0, 60);

        System.out.println(ax);

        System.out.println(ax.get(1));

        ax.remove(2);

        System.out.println(ax);

        ax.remove(Integer.valueOf(10));

        System.out.println(ax);

        ax.sort(null);

        for (int i : ax)

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

        System.out.print("\n");

        ax.clear();}}