import java.util.Scanner;

/\*\*

\* Week2MondayMain

\*/

public class week2mondaymain {

    public static void main(String[] args) {

        int i = 42;

        System.out.println(i);

        int copyi = i;

        System.out.println(copyi);

        copyi = 21;

        System.out.println(i);

        System.out.println(copyi);

        Circle circle = new Circle();

        circle.radius = 10;

        System.out.println(circle.radius);

        Circle circle2 = new Circle();

        System.out.println(circle2.radius);

        circle2.radius = 10;

        System.out.println(circle.radius);

       System.out.println(circle2.radius);

        int number1 = 5;

        int number2 = 5;

        System.out.println("should equal true" + (number1 == number2));

        String name = "Melissa";

        String secondName = "Melissa";

        String printText = "name to second name comparison".concat(secondName);

        System.out.println("name to second name" + name.compareTo(secondName));

        String poem = """

                The sky is blue today,

                how beautiful

                """;

        String student\_name = "Dean Wilcox"; //original name

        student\_name = "Dean Alan Wilcox"; //change the name

        System.out.println("My name is " + student\_name);

        Double GPA = 3.5; //original gpa

        GPA = 0.0; //change the gpa

        System.out.println("My GPA is " + GPA);

        Boolean veteran\_status = true; //use boolean for T/F questions

        System.out.println("Are you a veteran? " + veteran\_status);

        int lucky\_number = 14; // use int for whole numbers

        System.out.println("My lucky number is " + lucky\_number);

        Scanner scanner = new Scanner(System.in); //create new scanner

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

        double userInput = Double.parseDouble(scanner.nextLine());

        if(userInput > 0){

            System.out.println("Square root of the input is " + Math.sqrt(userInput));

         } else {

            System.out.println("Error: Number is not positive");

        }

        scanner.close(); //close the scanner

    }

    public static void RockPaperScissorGame() {

    Scanner scanner = new Scanner(System.in);

         //1 = scissors, 2 = rock, 3 = paper

        System.out.println("Please enter a number 0 - 2: ");

        int userInput = scanner.nextInt();

        int computerInput = (int) (Math.random() \* 3) + 1;

        if (userInput == 1 && computerInput == 2) {

            System.out.println("Computer won. Rock beats scissors");

        }

        if (userInput == 1 && computerInput == 3) {

            System.out.println("User won. Scissors beats paper");

        }

        if (userInput == 2 && computerInput == 3) {

            System.out.println("Computer won. Paper beats rock");

        }

        if (userInput == 2 && computerInput == 1) {

            System.out.println("User won. Rock beats scissors");

        }

        if (userInput == 3 && computerInput == 1) {

            System.out.println("Computer won. Scissors beats paper");

        }

        if (userInput == 3 && computerInput == 2) {

            System.out.println("User won. Paper beats rock");

        }

        if ((userInput == 1 && computerInput == 1) ||

        (userInput == 2 && computerInput == 2) ||

                (userInput == 3 && computerInput == 3)) {

            System.out.println("Nobody won. There is a tie");

        }

        scanner.close();

        //RockPaperScissorGame();

        System.out.println("Count of Vowels " + CountOfVowels(student\_name));

        // int power = 1;

        //for (int i = 5; i <= 7; i++) {

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

       //     power = 2 \* power;

        //}

}

    public static int CountOfVowels(String word) {

        char[] letters = word.toCharArray();

        int count = 0;

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

            char letter = letters[i];

            if (letter == 'a' || letter == 'e' || letter == 'i' || letter == 'o' || letter == 'u') {

                count++;

            }

        }

        return count;

    }

}