Section B Practicals

/\*Matthias Bartolo

\*Class Bc1B

\*Module8 Section B Q 3\*/

public class BoxArea {

/\*Start of Scope\*/

public static void main (String args[]){

double l = 4.5;

double b= 7.4;

double area = b\*l;

System.out.println("The area is "+ area + "cm squared ");

}

/\*End of Scope\*/

}

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/\*Matthias Bartolo

\*Class Bc1B

\*Module8 Section B Q 4\*/

public class Average {

public static void main (String args[]){

int num1 = 20;

int num2 = 3;

int num3 = 25;

double average = (num1 + num2 + num3)/3;

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

}

}

---------------------------------------------------------------------------------------------------------

/\*Matthias Bartolo

\*Class Bc1B

\*Module8 Section B Q 5\*/

public class DigitQuotient {

public static void main (String args[]){

int n = 7256;

System.out.println("The digits of n are " + n/1000 + ","+((n%1000)/100) +"," + ((n%100)/10) + " and " + (n%10));

}

}

---------------------------------------------------------------------------------------------------------

/\*Matthias Bartolo

\*Class Bc1B

\*Module8 Section B Q 6\*/

// Java program to read data of various types using Scanner class.

import java.util.\*;

public class Digits {

public static void main (String args[]){

Scanner sc = new Scanner(System.in);

System.out.println("Input a number between 0 and 1000");

int n = sc.nextInt();

int total =(n/1000)+((n%1000)/100)+ ((n%100)/10) +(n%10);

System.out.println("The digits of n add up to " + total);

}

}

---------------------------------------------------------------------------------------------------------

/\*Matthias Bartolo

\*Class Bc1B

\*Module8 Section B Q 7\*/

public class Square {

public static void main (String args[]){

int length = 4;

int area = (length \* length);

int per = 4\*(length);

System.out.println("The area is " + area + "cm squared " + "\nThe perimeter is " + per + "cm cubed ");

}

}

---------------------------------------------------------------------------------------------------------

/\*Matthias Bartolo

\*Class Bc1B

\*Module8 Section B Q 8\*/

public class Wage {

public static void main (String args[]){

String name= "Alex ";

double hrs = 40.5;

double rate = 6.5;

double overtime = 5.3;

double overrate= 10.5;

double grosswage = (hrs\*rate) + (overtime\*overrate);

System.out.println(name + "\nEarned € " + grosswage);

}

}

---------------------------------------------------------------------------------------------------------

/\*Matthias Bartolo

\*Class Bc1B

\*Module8 Section B Q 9\*/

public class Arithmetic {

public static void main (String args[]){

int a = 10;

int b = 23;

int total = 80;

total +=(b+a);

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

}

}

---------------------------------------------------------------------------------------------------------

/\*Matthias Bartolo

\*Class Bc1B

\*Module8 Section B Q 10\*/

// Java program to read data of various types using Scanner class.

import java.util.\*;

public class Density {

public static void main (String args[]){

Scanner sc = new Scanner(System.in);

System.out.println("Input mass");

int mass = sc.nextInt();

System.out.println("Input volume");

int volume = sc.nextInt();

double density = mass/volume;

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

}

}

---------------------------------------------------------------------------------------------------------

/\*Matthias Bartolo

\*Class Bc1B

\*Module8 Section B Q 11\*/

// Java program to read data of various types using Scanner class.

import java.util.\*;

public class Temperature {

public static void main (String args[]){

Scanner sc = new Scanner(System.in);

System.out.println("Input temperature in Fahrenheit ");

double temp = sc.nextDouble();

double t= (temp-32)\*5/9;

System.out.println("The temperature in Celsius is " + t );

}

}

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/\*Matthias Bartolo

\*Class Bc1B

\*Module8 Section B Q 12\*/

// Java program to read data of various types using Scanner class.

import java.util.\*;

public class Circle {

public static void main (String args[]){

Scanner sc = new Scanner(System.in);

final double PI = 3.142;

System.out.println("Input radius");

double r = sc.nextDouble();

double per = 2\* PI \*r;

double area = PI\*r\*r;

System.out.println("The area is " + area + " cm squared and hte perimeter is " + per + " cm ");

}

}

---------------------------------------------------------------------------------------------------------

/\*Matthias Bartolo

\*Class Bc1B

\*Module8 Section B Q 13\*/

// Java program to read data of various types using Scanner class.

import java.util.\*;

public class Time {

public static void main (String args[]){

Scanner sc = new Scanner(System.in);

System.out.println("Input any number of minutes");

int minutes = sc.nextInt();

int days = minutes/24;

int years = days/365;

int d2 =days- (years\*365);

System.out.println("The equilivalent of " + minutes + " minutes is "+ years + " years and "+ d2 + "days" );

}

}

---------------------------------------------------------------------------------------------------------

/\*Matthias Bartolo

\*Class Bc1B

\*Module8 Section B Q 14\*/

public class Wage2 {

public static void main (String args[]){

String name= "Alex ";

double hrs = 40.5;

double rate = 6.5;

double overtime = 5.3;

double overrate= 10.5;

final double taxrate = 0.895;

double grosswage = (hrs\*rate) + (overtime\*overrate);

double netwage = grosswage\*taxrate;

System.out.println(name + "\nEarned € " + grosswage);

System.out.println("\nThe Net wage is € " + netwage);

}

}

---------------------------------------------------------------------------------------------------------

/\*Matthias Bartolo

\*Class Bc1B

\*Module8 Section B Q 15\*/

// Java program to read data of various types using Scanner class.

import java.util.\*;

public class BMI {

public static void main (String args[]){

Scanner sc = new Scanner(System.in);

System.out.println("Input weight ");

double weight = sc.nextDouble();

System.out.println("Input height ");

double height = sc.nextDouble();

double BMI = weight/height;

System.out.println("The BMI is " + BMI + " kg/m2");

}

}

---------------------------------------------------------------------------------------------------------

/\*Matthias Bartolo

\*Class Bc1B

\*Module8 Section B Q 16\*/

public class Numbers{

public static void main (String args[]){

int num = 25;

double n = 29.9;

double num2 = num;

int n2 = (int)(n);

System.out.println(num2 + " "+ n2);

}

}

/\*Matthias Bartolo

\*Class Bc1B

\*Module8 Section B Q 17\*/

public class secretMessage{

public static void main (String args[]){

char c1 =(char)(74);

char c2 =(char)(97);

char c3 =(char)(32);

char c4 =(char)(119);

char c5 =(char)(97);

char c6 =(char)(115);

char c7 =(char)(111);

char c8 =(char)(114);

char c9 =(char)(105);

char c10 =(char)(103);

char c11 =(char)(110);

char c12 =(char)(108);

char c13 =(char)(121);

char c14 =(char)(99);

char c15 =(char)(101);

char c16 =(char)(100);

char c17 =(char)(79);

char c18 =(char)(109);

char c19 =(char)(98);

char c20 =(char)(121);

char c21 =(char)(116);

char c22 = (char)(118);

char c23 = (char)(107);

char c24 = (char)(33);

System.out.println(c1+ " "+c2+ " "+c22+ " "+c2+ " "+c3+ " "+c4+ " "+c2+ " "+c6+ " "+c3+ " "+c17+ " "+c8+ " "+c9+ " "+c10+ " "+c9+ " "+c11+ " "+c2+ " "+c12+ " "+c12+ " "+c13+ " "+c3+ " "+c14+ " "+c2+ " "+c12+ " "+c12+ " "+c15+ " "+c16+ " "+c3+ " "+c17+ " "+c2+ " "+c23+ " "+c3+ " "+c2+ " "+c11+ " "+c16+ " "+ c3+ " "+ c4+ " "+c2+ " "+ c6+ " "+c3+ " "+c18+ " "+c2+ " "+c16+ " "+c15+ " "+c3+ " "+c19+ " "+c13+ " "+c3+ " "+c2+ " "+c14+ " "+c14+ " "+c9+ " "+c16+ " "+c15+ " "+c11+ " "+c21+ " "+c24);

}

}

---------------------------------------------------------------------------------------------------------

/\*Matthias Bartolo

\*Class Bc1B

\*Module8 Section B Q 18\*/

// Java program to read data of various types using Scanner class.

import java.util.\*;

public class Age {

public static void main (String args[]){

Scanner sc = new Scanner(System.in);

System.out.println("Input current age ");

int age = sc.nextInt();

System.out.println("Last year you were " + (--age)+ " years old");

}

}

---------------------------------------------------------------------------------------------------------

/\*Matthias Bartolo

\*Class Bc1B

\*Module8 Section B Q 19\*/

// Java program to read data of various types using Scanner class.

import java.util.\*;

public class Velocity {

public static void main (String args[]){

Scanner sc = new Scanner(System.in);

System.out.println("Input distance in metres");

double d = sc.nextDouble();

System.out.println("Input time in seconds");

double t = sc.nextDouble();

double velocity = d/t;

System.out.println("\nThe velocity is ");

System.out.printf("%8.3f",velocity);

System.out.println("metres per second ");

}

}