**King Saud University**

**College of Computer & Information Science**

**CSC111 – Lab2**

**Arithmetic operator, Increment, Decrement**

**All Sections**

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1. Write a java program which computes and prints the temperature of Riyadh, New York and Tokyo in degrees Fahrenheit.

The temperature in degrees Celsius for those cities is as follow:

Riyadh = 42

New York = 18

Tokyo = 25

*Relevant formula:*

Fahrenheit = 9.0 / 5.0 x Celsius + 32.0

قم بكتابة برنامج بلغة الجافا يقوم بحساب و طباعة درجة الحرارة **بالفهرنهايت** للمدن الرياض و نيو يورك و طوكيو.

علماً بأن درجة الحرارة **المئوية** لتلك المدن هي كالآتي:

الرياض = 42

نيو يورك = 18

طوكيو = 25

*قم باستخدام هذه المعادلة*

*الدرجة بالفهرنهايت = 9,0 / 5,0 x الدرجة بالمئوية + 32،0*

public class Temperature {

public static void main( String args[] ) {

double RF, NF, TF;

double RC = 42.0;

double NC = 18.0;

double TC = 25.0;

RF = 9.0 / 5.0 \* RC + 32.0;

NF = 9.0 / 5.0 \* NC + 32.0;

TF = 9.0 / 5.0 \* TC + 32.0;

System.out.println(“The temperature in degrees Fahrenheit of Riyadh = “ + RF);

System.out.println(“The temperature in degrees Fahrenheit of New York = “ + NF);

System.out.println(“The temperature in degrees Fahrenheit of Tokyo = “ + TF);

}

}

1. Write a java program that computes and prints the area and the circumference of a rectangle which its width = 10 and its length = 4.

اكتب برنامجاً بلغة الجافا يقوم بحساب و المساحة و المحيط لمستطيل عرضه 10 و طوله 4.

public class Rectangle {

public static void main( String args[] ) {

int width = 10;

int length = 4;

int area = width \* length;

int circum = 2 \* ( width + length);

System.out.println(“The area of the rectangle = “ + area);

System.out.println(“The circumference of the rectangle = “ + circum);

}

}

1. Write a program that prints an arrow as follows:

اكتب برنامجا يقوم بطباعة الآتي:

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public class Arrow {

public static void main( String args[] ) {

System.out.println(“ \* “);

System.out.println(“ \*\*\* “);

System.out.println(“ \*\*\*\*\*“);

System.out.println(“ \* “);

System.out.println(“ \* “);

System.out.println(“ \* “);

System.out.println(“ \* “);

System.out.println(“ \* “);

System.out.println(“ \* “);

}

}

1. The monthly income of Nasser’s company was 45,000 S.R. for the first month and it was 35,000 S.R. for the second month. Write a java program that computers and prints the total income, the difference in income between the first and second month, and the average of income per month.

الدخل الشهري لشركة ناصر كان 45000 ريال للشهر الأول و كان 35000 ألف ريا للشهر الثاني. اكتب برنامجاً يقوم بحساب و طباعة مجموع الدخل الكلي، الفرق بين دخل الشهر الأول و الشهر الثاني, و متوسط الدخل.

public class Income {

public static void main( String args[] ) {

int income1 = 45000;

int income2 = 35000;

int total = income1 + income2;

int dif = income1 - income2;

double average = total/2;

System.out.println(“The total income = “ + total + " S.R.");

System.out.println(“The difference in income = “ + dif + " S.R.");

System.out.println(“The average of incomes = “ + average + " S.R.");

}

}