WIX1002 Fundamentals of Programming Tutorial 2 Java Fundamental

1. Display the sentence Faculty of Computer Science and Information Technology.
   1. In one line using multiple Java statements

System.out.print(“Faculty of Computer Science and Information Technology.“);

* 1. In multiple lines using one Java statement

System.out.print(“Faculty “);

System.out.print(“of “);

System.out.print(“Computer Science “);

System.out.print(“and “);

System.out.print(“Information Technology.“);

1. Write a Java statement that print "SDN" - Software-defined networking

System.out.print(“\“SDN\” – Software-defined networking“);

1. Correct the error for the following statements.
   1. System.Println("Java Programming");

System.out.println(“Java Programming”);

* 1. System.in.println("Introduction to Java!")

System.out.println(“Introduction to Java!”);

* 1. System.out.println("\t is the horizontal tab character");

System.out.println(“\\t is the horizontal tab character”);

* 1. system.out.println("Java is case sensitive!" );

System.out.println(“Java is case sensitive!”);

1. Write statements for each of the following
   1. Declare a variable that used to store the value of a matric number.

String matric;

* 1. Declare a variable that used to store the value of π.

double pi;

* 1. Initialize a variable named M with the value set to false.

boolean M = false;

* 1. Initialize a variable named P with the value set to 8800000000.

Long P = 8800000000; (cnt int as int max value reached)

* 1. Initialize a variable named letter with the value set to U.

char letter = ‘U’;

* 1. Declare a constant variable named PRO. The value of the constant variable is Java.

final String PRO = “Java”;

1. Correct the error for the following statements. a.

final double AMOUNT = "32.5"; AMOUNT += 10;

System.out.println("The amount is " + AMOUNT);

double AMOUNT = 32.5;

AMOUNT += 10;

System.out.println(“The amount is “ + AMOUNT);

b.

string chapter = 'Summary'; System.out.println(chapter);

String chapter = “Summary”;

System.out.println(chapter);

c.

int num;

++num++; num1 = num;

int num = 0, int num1;

num++;

num1 =num;

d.

int num = 3000; System.out.printf("%4.2f\n", num);

float num = 3000;

System.out.printf(“%4.2f\n”,num);

e.

String contact;

Scanner keyboard = new Scanner(System.out); contact = keyboard.nextLine();

String contact;

Scanner keyboard = new Scanner(System.in);

contact = keyboard.nextLine();

1. Write a java program that print the circumference of a circle. The input of the program is diameter. Display the result in three decimal places. (Note  = Math.PI)



Scanner sc = new Scanner(System.in);

System.out.print(“Enter diameter: ”);

float dmeter = sc.nextDouble();

float ccf = Math.PI \* dmeter;

System.out.print(“The circumference of the circle is : ” + String.format(“%.3f”,ccf));

1. Write a java program that converts inches to meters. (Given 1 inch equals to 2.54 centimeters). Print the output in two decimal places.

Scanner sc = new Scanner(System.in);

System.out.print(“Enter value in inch: ”);

float inch = sc.nextFloat();

double cm = inch \* 2.54;

System.out.print(inch + “ inches = ” + String.format(“%.2f”,cm) + “ meters”);