WIX1002 Fundamentals of Programming Semester 1 2015/2016 Tutorial 2 Java Fundamental

Build the pseudocode and flow chart for each of the problems:

- 1. Display the sentence Knowledge is Power.
 - a. In one line using three Java statements
 - b. In three lines using one Java statement
- 2. Write a Java statement that display "RAM" is called Random Access Memory.
- 3. Correct the error for the following statements.
 - a. System.Println("Hello Java!");
 - b. System.out.println("Introduction to Java!")
 - c. System.out.println("\t is the horizontal tab character");
 - d. system.out.println("Java is case sensitive!");
- 4. Write statements for each of the following
 - a. Declare a variable that used to store the value of body weight.
 - b. Declare a variable that used to store URL.
 - c. Initialize a variable with the value set to true.
 - d. Initialize a variable with the value set to 2400000000.
 - e. Initialize a variable with the value set to Z.
 - f. Declare a constant variable. The value of the constant variable is Java.
- 5. Correct the error for the following statements.

```
a. final double AMOUNT = "32.5";
   AMOUNT += 10;
   System.out.println("The amount is " + AMOUNT);
b. string chapter = 'Summary';
   System.out.println(chapter);
c. int num;
   ++num++;
   num1 = num;
d. int num = 3000;
   System.out.printf("%4.2f\n", num);
```

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

- 6. Write the java statements that calculate the Body Mass Index (BMI). BMI = w / h². The input of the program is **w for weight in kg** and **h for heights in m**. Display the BMI in two decimal places.
- 7. Write the java statements that calculate the area of a circle. The input of the program is diameter. Diameter = 2r. area = πr^2 (Note $\pi = Math.PI$)