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Week 2 HW

Exercise 2.7

a) **Comments** are used to document a program and improve its readability.

b) A decision can be made in a Java program with a

c) Calculations are normally performed by **assignment** statements.

d) The arithmetic operators with the same precedence as multiplication are **division** and **remainder**.

e) When parentheses in an arithmetic expression are nested, the **innermost** set of parentheses is evaluated first.

f) A location in the computer’s memory that may contain different values at various times throughout the execution of a program is called a **variable name**.

Exercise 2.8

a) System.out.println (“Enter an integer:”);

b) a = b \* c

c) // A program performs a sample payroll calculation.

Exercise 2.9

a) Java operators are evaluated from left to right. **True,** operators are evaluated from left to right according to their precedence.

b) The following are all variable names: \_under\_bar\_, m928134, t5, j7, her\_sales$, his\_$account\_total, a, b$, c, z and z2. **True,** because the programmer can assign them to the memory and can address back to them so it can replace the previous value with a new one.

c) A valid arithmetic expression with no parentheses is evaluated from left to right. **False,** it can also be evaluated from right to left depending on the precedence of the operators used.

d) The following are all invalid variable names:3g, 87, 67h2, h22 and 2h. **True,** because the computer needs a name that has a location in the memory which can address back to so it can replace the previous value with a new one.

Exercise 2.11

Which of the following Java statements contain variables whose values are modified.

a) p = i + j + k + 7; **True**

b) System.ou.println( “variables whose values are modified” ); **False**

c) System.out.println( “ a=5” ); **False**

d) value = input.nextInt() ; **True**

Exercise 2.14

**a)**

public class 1 to 4

{

public static void main (String [] args)

{

System.out.println ("1 2 3 4");

}

}

**b)**

public class 1 to 4

{

public static void main (String [] args)

{

System.out.println ("1");

System.out.println ("2");

System.out.println ("3");

System.out.println ("4");

}

}

**c)**

public class 1 to 4

{

public static void main (String [] args)

{

System.out.printf( “%s\n%s\n”,

“1 2 3 4”);

}

}