**Exercise on Lesson 9**

Use the following code for problems 1 – 10 and give the value of *true\_false* for each:

int i = 10, j = 3;

boolean true\_false;

1. true\_false = (j > i);

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2. true\_false = (i > j);

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3. true\_false = (i= = j);

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4. true\_false = ( (j <= i) | | (j >= i ) );

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5. true\_false = ( (i > j) && (j = = 0) );

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6. true\_false = ( (j < 50) | | (j != 33) );

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7. true\_false = ( !(j >= 0) | | (i <= 50) );

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8. true\_false = ( !(! (!true)) );

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9. true\_false = (5 < = 5);

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10. true\_false = (j != i);

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11. Write a statement that will store a true in *boolean b* if the value in the variable *m* is 44 or less.

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12. Write a statement that will store a false in *boolean b* if the value in *r* is greater than 17.

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13. What is returned by the following expression? (Recall that the precedence order of logical operators is !, &&, and finally | |.)

!( (2>3) | | (5= =5) && (7>1) && (4<15) | | (35<=36) && (89!=34) )

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In problem 14 – 16 what is the output?

14. String s1 = “school BUS”;

if ( s1.equals(“school bus”) ) System.out.println(“Equal”);

else

System.out.println(“Not equal”);

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15. String s1 = “school BUS”;

if ( s1.equalsIgnoreCase(“school bus”) ) System.out.println(“Equal”);

else

System.out.println(“Not equal”);

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16. int j = 19, m = 200;

if (j= =18) m++; j++;

System.out.println(m); System.out.println(j);

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17. Write a statement that will store a *false* in *boolean b* if the value in *g* is not equal to 34.

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18. Write a statement that will store a *true* in *boolean b* if integer *k* is even, *false* if it is odd.

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19. Write a program that inputs a *String* from the keyboard after the prompt, “Enter your password”. If it’s entered exactly as “XRay”, printout “Password entered successfully.”; otherwise, have it printout “Incorrect password.”

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20. What is output by the following “nested *if*s” code?

int k = 79;

if (k>50)

{

}

else

{

if (k<60)

{System.out.println(“One”);}

else

{ System.out.println(“Two”);}

if (k>30) System.out.println(“Three”);

else

}

System.out.println(“Four”);

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