**Name**

**Advanced Programming in Java**

**Lab Exercise 9/13/2023**

Reference: Lesson 11 in Blue Pelican Java

In each problem below state what is printed unless directed otherwise.

1. int j = 0;

for (int g = 0; g <5; g++)

j++;

System.out.println(j);

2. int s = 1;

for (int j = 3; j >= 0; j--)

{

s = s + j;

}

System.out.println(s);

3. int p = 6;

int m = 20, j;

for (j = 1; j < p; j++); //Notice the semicolon on this line

{

m = m + j \* j;

}

System.out.println(m);

4. double a = 1.0;

for (int j = 0; j < 9; j++)

{

a\*=3;

}

System.out.println(j);

5. for (int iMus = 0; iMus < 10; iMus++)

{

int b = 19 + iMus;

}

System.out.println(b);

6. double d = 100.01;

int b = 0;

for (int iMus = 0; iMus < 10; iMus++)

b = 19 + iMus;

d++;

System.out.println(d);

7. Write a for-loop that will print the numbers 3, 6, 12, and 24

8. Write a for-loop that will print the numbers 24, 12, 6, 3

9. int k = 0;

for(int j = 0; j <= 10; j++)

{

if (j = = 5)

{

break;

}

else

{

k++;

}

}

System.out.println(k);

10. What is the name of the part of the parenthesis of a for-loop that terminates the loop?

11. What is the value of *j* for each iteration of the following loop?

int i, j;

for( i = 10; i <= 100; i = i+ 10)

j = i / 2;

12. What is the value of *r* after the following statements have executed?

int r, j;

for (j = 1; j < 10; j = j \* 2)

r = 2 \* j;

13. How many times does the following loop iterate?

for (p = 9; p <= 145; p++)

{

}

**Exercise 1**

Write a program that will allow a user to input his name. The prompt and input data would look something like this:

Please enter your name. Peter Ustinov

Using a for-loop and the *String* method, *substring(…),* produce a printout of the reversal of the name.

For example, the name *Peter Ustinov* would be:

vonitsu retep

Notice that the printout is in all lower-case. Use the *String* method, *toLowerCase( )* to

accomplish this.

**Exercise 2**

Write a program that asks the user to enter two words. The program then prints out both words on one line. The words will be separated by enought dots so that the total line length is 30:

Enter first word:

turtle

Enter second word

153

turtle....................153

This could be used as part of an index for a book. To print out the dots, use System.out.print(".") inside a loop body.

**Exercise 3**

Write a program that asks the user for a starting value and an ending value and then writes all the integers (inclusive) between those two values.

Enter Start: 5

Enter End: 9

5 6 7 8 9

When you have completed these assignments, submit your documented source code as well as a copy of this document with answers.