# Java Programming

Student\_\_\_\_\_

Date: \_\_\_\_\_

## Java Skills: Self Assessment

Skill set 1

Using the Cloud9 IDE, I can

- create a file
- paste java code into a file and save it with a .java extension
- □ compile a saved java program using the Linux command line and javac
- □ execute a java program from the Linux command line using the java interpreter

## Skill Set 2

Using a bash shell under Linux, I can

- □ list the contents of a directory using the \_\_\_\_\_ command
- □ view the contents of a text file using at least three commands:
  - 1. \_\_\_\_\_
  - 2. \_\_\_\_\_
  - 3. \_\_\_\_\_
  - 4. \_\_\_\_\_
- □ create a directory using the \_\_\_\_\_ command
- □ change my working directory to a specified directory using the \_\_\_\_\_ command

## Skill Set 3

In a Java program, I can

- declare and use the following built-in (primitive) data types:
  - 🗆 int
  - □ double
  - Boolean

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#### Skill Set 4

- use the following arithmetic operators
  - □ addition +
  - □ subtraction –
  - multiplication \*
  - $\Box$  division /
  - mod(remainder) %
  - □ and can use casting to change int expressions to double
  - and I know the precedence of the operations follows the expected order of operations

## Skill Set 5

- I can use the following relational operators (in loops or if conditions)
  - □ is equal ==
  - □ is not equal !=
  - $\Box$  less than <
  - □ greater than >
  - □ less than or equal to <=
  - $\Box$  greater than or equal to >=

#### Skill set 6

- I can use the assignment, increment and decrement operations:
  - □ == □ ++
  - \_\_\_\_

## Skill Set 7

- I can use logical operators
  - □ AND &&
  - □ OR ||
  - □ NOT !

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## Skill Set 8

• I can match special escape sequences with their meaning:

□ \n	tab character
□ \\	back-slash
□ \"	new line
□ \t	quote

## Skill Set 9

- I can use control statements
  - □ if
  - $\Box$  if..else
  - nested if..else
  - $\hfill\square$  for loops
  - □ while loops

## Skill Set 10

- I can use input and output statements to
  - □ send a text message to the screen
  - read an integer value from the keyboard, store It in a variable
  - □ read a long value from the keyboard, store it in a variable
  - □ read a single-word string from the keyboard, store it in a variable
  - □ enter and read a multi-word string from the keyboard, and store it in a variable
  - send a text message along with the value of a String, int, boolean, or double variable.