**Exercise on Variables**

*Answer the questions below:*

1. What are the four main types of variables used in Java and what are they used to store?

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| --- |
| int, boolean, double, char |

2. What type of variable would you use to store your name?

|  |
| --- |
| String |

3. What type of variable would you use to store the square root of 2?

|  |
| --- |
| double |

4. What type of variable would you use to store your age?

|  |
| --- |
| int |

5. Write a single line of code that will create a **double** variable called p and store 1.921 X 10-16 in it.

|  |
| --- |
| double p = 1.921 X 10^-16; |

6. Write a single line of code that will create an **integer** variable called i and store 407 in it.

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| --- |
| int i = 407; |

7. Write a single line of code that will create a **String** variable called my\_name and store your name in it.

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| --- |
| String my\_name = “jontron”; |

8. Write a line of code that will declare the variable count to be of type int. Don’t initialize.

|  |
| --- |
| int count = 1; |

9. Write a line of code that initializes a **double** variable bankBalance to 136.05. Assume this variable has already been declared.

|  |
| --- |
| double bankBalance = 136.05; |

10. Which of the following are legal variable names? (Highlight the correct answers)

scooter13

139\_scooter

;mary

public

doubled

double

ab c

11. Which of the following is the most acceptable way of naming a variable. Multiple answers are possible. (Highlight the correct answers)

a. GroovyDude

b. GROOVYDUDE

c. groovyDude

d. Groovydude

e. groovy\_dude

f. groovydude

12. What is wrong about the following two lines of code?

double dist = 1003;

int alt = 1493.86;

|  |
| --- |
| an integer cannot be a decimal |