

Montgomery College, CMSC 203
WorkSheet1 Answers
Module 1

Objectives

- Define Variables, Literals
- Variable naming convention
- `print, println` commands
- Java comments

Preprogram Questions

1. Arithmetic Operators Which of the following is a valid java variable name:

- a) ?myName
- b) 12Car
- c) \$money
- d) int

Answer : c

2. Declare a variable of type `int` to hold the student grade.

Answer :

Examples of correct answers: `int studentGrade, stGrade;`

Examples of incorrect answers: `int StudentGrade, STGrade, STUDENT_GRADE;`

3. Declare a variable to hold the constant value for interest rate of 2.5.

Answer: `final double INT_RATE = 2.5;` OR `final double INTEREST_RATE = 2.5;`

4. Declare a `String` variable to hold the name John.

Answer: `String name="John";`

5. What is the value of `z` after the following code is executed?

```
int x = 9, y = 4;  
double z = x/y;
```

Answer : 2.0

6. What is the value of `z` after the following code is executed?

```
int x = 9;  
double y = 4, z = x/y;
```

Answer : 2.25

7. What is the value of `z` after the following code is executed?

```
int x = 9;
```

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```
double y = 4, z = x%y;
```

Answer : 1.0

8. Will the following code compile:

```
final int X = 10;  
X = 9;
```

Answer: No. The value of constant variable cannot be changed.

9. Complete the following code to declare two variables of type `int` and print their sum using the `sum` variable:

```
int x = 4;  
int y = 7;  
int sum = x + y;  
System.out.println(sum);
```

10. In every java program :

- a. There must be at least two variables declared
- b. There must be a method called "main"
- c. All of the variables must be integers

Answer : b

Practice writing Java Program

Create a java program that does the following:

- Create an integer variable to hold the approximate number of words you can type in a minute.
- Create a `String` variable to hold your name.
- Display a message on the Eclipse Console showing your name and the number of words you can type in a minute. Example: "Mary can type 50 words in a minute!"
- Use arithmetic operators to calculate the number of words you can type in a day and display the result on the console.
- Add at least 2 useful comments to your code.