Programming Review 1 Name:

1. Be able to define the following
   1. **concatination**: combining Strings
   2. **variable**: identifier representing a memory locaion
   3. **boolean**: logical data type taking true or false value
   4. **char**: data type representing one Unicode character
   5. **hardware**: physical parts of a computer system
   6. **software**: programs and data
   7. **class**: blueprint of an object with variables & methods
   8. **object**: encapsulated collection of data and variables; an instance of a class
   9. **method**: named group of declarations and statements to be called
   10. **String**: series of ordered characters
   11. **parameter**: value passed to a method when called (involked)
   12. **return type**: type of value returned from a method
   13. **initialization**: giving a starting value to a variable
   14. **instantiation**: act of creating an object from a class
   15. **scope**: areas in a program where an identifier can be referenced
   16. **operand**: value on which an operator acts (for example: 5 or x)
   17. **operator**: a symbol that represents an operation (for example: + \* -)
2. What do each of these symbols look like?
   1. **Increment operator**: ++ e. **Logical OR operator**: ||
   2. **Assignment operator**: = f. **End of statement punctuation**: ;
   3. **Remainder operator**: %
   4. **Logical AND operator**: &&
3. What do each of these escape sequences do?
   1. **\ t** inserts a tab
   2. **\ n** returns to a new line
   3. **\ \** inserts a backslash character
   4. **\ “** inserts a double quotation mark
4. Name at least 3 reserved words:
   1. **new boolean for if public private static false true**
5. What are the 6 comparison operators?
   1. **<**
   2. **>**
   3. **< =**
   4. **> =**
   5. **! =**
   6. **= =**
6. Write a method header for a function that takes two integers, multiplies them, and returns the resulting product. The method is public.

**public int multiplyMe (int x, int y)**

1. Give an example of an input device & an example of an output device.

**Input devices: scanner, mouse, touch screen, keyboard**

**Output devices: monitor, printer, speaker**

1. Give an example of a valid identifier and an invalid identifier.

**Valid: bob myVariable**

**Invalid: 5numbers numbers!**

1. Write a loop to add the numbers between 1 and 10.

**int sum = 0;**

**for (int i = 1; i < = 10; i++){**

**sum = sum + i;**

**}**

**System.out.println(sum);**