

CSCI 145 -- Pop Quiz 1 (10 points)

1. The Java compiler will be able to detect all errors in a Java program. State true or false and briefly provide a statement to support your answer.

False. The Java compiler may not identify logical errors.

2. A Java application must have a main() method and this method must be inside a class. State true or false and briefly provide a statement to support your answer.

True. The main() method is used to call other methods and handle the flow of the program.

3. Java language is an example of a
- machine language
 - low-level language
 - virtual language
 - ☒ high-level language

4. Describe at least two things that you can do to make a program easier to read and understand when writing a program.

Using meaningful names on variables.
Use comments to explain how and why each method is used. ✓

5. Unlike C++, Java is considered **architecture independent**. What does that mean?

Since Java code is translated into bytecode, any machine that has Java compiler installed will be able to run Java programs regardless what the operating system is being used. ✓

6. What is printed by the following statement?

```
System.out.println (1 + 2 + "d is the \"same\" as " + 1 + 1 + "b?");
```

3d is the "same" as 11b? ✓

7. Add a set of statements (not a complete program) that will prompt the user to input 2 *int* values and output the product of those two values to the screen. Declare variables as needed. See Sample I/O below:

```
Enter first value: 12<Enter>
Enter second value: 5<Enter>
Product: 60
```

```
// Create Scanner object for input
Scanner scan = new Scanner(System.in);
```

```
// Add more code below
```

```
int val1;
```

```
int val2;
```

```
System.out.print("Enter first value: ");
```

```
val1 = scan.nextInt();
```

```
System.out.print("Enter second value: ");
```

```
val2 = scan.nextInt();
```

```
System.out.println("Product: " + (val1 * val2));
```

