## Sample Exam 1 (Chapters 1 to 5)

Each question worth 20%	)
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1) What is displayed when the following instructions are executed:

```
System.out.print("yes");
System.out.print("no")
System.out.println("maybe");
System.out.println(10/3);
System.out.println("10/3");
System.out.println(10%3);
System.out.println("bert" + 3 + 5);
System.out.println("bert" + (3 + 5));
System.out.println(3 + 5 + "bert");
System.out.println(100*10/10*10);
```

2) Write a Java program that displays hello ten times, each on a separate line.

3) Write a Java program that displays the odd numbers between 1 and 999, inclusive except for the odd numbers between 223 and 333, inclusive. Use only one loop.

4) Write a Java program that contains a main method and two getGrade methods. One version of getGrade has a single int parameter; the other has two int parameters. The first version of getGrade returns the letter grade that corresponds to the test score it is passed. Test scores and their corresponding letter grades are as follows:

Letter	Grade
Α	
В	
С	
D	
F	
	A B C

For example, the call of getGrade in the following statement should return (not display) the char value 'B':

```
char grade = getGrade(81);
```

The second version of getGrade is passed two test scores. It returns the grade that corresponds to the average of the two test scores it is passed. It should

- 1) determine the average of the two numbers it is passed;
- 2) call the first version of getGrade, passing it the average to get the corresponding letter grade;
- 3) return the letter grade it gets in step 2.

main should call getGrade three times, once passing it 64, once passing it 99, and once passing it both 73 and 91. For each call, main should display the score or scores and the corresponding letter grade obtained from getGrade. The display produced by main should look like this:

```
64 gets the grade F
99 gets the grade A
73 and 91 gets the grade B
```

5) Write a program that prompts for and then reads in a non-negative two-digit integer. You program should than call a method named displayDigits passing it the integer read in. displayDigits should display each digit of the integer it is passed on a separate line, labeled as shown below. For example, if displayDigits is passed 57, displayDigits should display

```
First digit = 5
Second Digit = 7
```

*Hint*: use the / and % operators to isolate the individual digits.