**Intro to Java Quiz Review\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**1)** Write the main method.

public static void main(String[] laksjdhfadsf){

}

**2)** What are 2 differences between a primitive and a reference type?

primitves don't have methods, reference types do

primitive types are named with lowercase letters, reference types are capitalized

reference types are defined with a class (java file)

**3)** What is a Scanner?

Class that we can use to get user input ( Scanner(System.in) )

nextInt() - returns the next int the user types

**4)** What are the two methods used to print text on the screen? What is the difference between them?

System.out.print("some words or something"); - prints on one line

System.out.println("different words"); - print the text in () then move to the next line

**5)** Write code to ask the user to enter an int. Print out the square root of that int.

Scanner inputter = new Scanner(System.in);

System.out.print("Enter a number: ");

int num = inputter.nextInt();

System.out.println("The square root of " + num + " is " + Math.sqrt(num));

**6)** What is the output of the following code segments? There may be errors.

System.out.print(3/2); 1

System.out.print(3.0/2); 1.5

System.out.print(3+1 / 2); 3

3 + (1/2) -> 3 + 0 -> 3

System.out.print("3 + 4 = " + 3 + 4); 3 + 4 = 34

("3 + 4 = " + 3) + 4 -> "3 + 4 = 3" + 4 -> "3 + 4 = 34"

System.out.print("3 + 4 = " + (3 + 4)); 3 + 4 = 7

System.out.println("3 - 4 = " + 3 - 4);

("3 - 4 = " + 3) - 4 -> "3 - 4 = 3" - 4 -> ERROR

**7)** What are the two jobs the + has?

Numerical addition, String concatenation (put next to each other)

**8)** What are the three parts of a for loop heading?

for(int i = 0; i < 10; i++)

initialization ; boolean ; increment

**9)** What is the one part of a while loop heading?

while(number > 10)

boolean

**10)** Write code that asks the user to enter a number, and the prints out "negative" if the number is negative, "positive" if the number is positive, and "zero" if the number is 0.

Scanner scan = new Scanner(System.in);

System.out.print("Type a number, yo: ");

int number = scan.nextInt();

if(number == 0)

System.out.println("zero");

else if(number < 0)

System.out.println("negative");

else

System.out.println("positive");

**What is printed as a result of: (Use the String link to help if you need to)**

**11)** String word = "Hello World";

System.out.println(word.length());

11

**12)** String course = "Computer Science";

System.out.println(course.length());

16

**13)** String word = "Hello World";

System.out.println(word.indexOf("W"));

6

**14)** String word = "Hello World";

System.out.println(word.indexOf("w"));

-1

**15)** String course = "Computer Science";

System.out.println(course.substring(0,0));

""

**16)** String course = "Computer Science";

System.out.println(course.substring(1,3));

om

012345

**17)** String course = "Computer Science";

System.out.println(course.substring(5));

ter Science

**18)** String course = "Computer Science";

String word = "Hello World";

System.out.println(course.compareTo(word));

a negative number

course < word, so it returns a number < 0

**19)** String course = "Computer Science";

String word = "Hello World";

System.out.println(word.compareTo(course));

a positive number

word > course, so it returns a number > 0

**20)** String course = "Computer Science";

String word = "Hello World";

System.out.println(word.compareTo(word));

0

word = word, so it returns a number = 0

**21)** String course = "Computer Science";

String word = "Hello World";

System.out.println(course.equals(word));

false

**22)** String course = "Computer Science";

String word = "Hello World";

System.out.println(course.equals(course));

true

**23)** System.out.println("Freckle".substring(0,"Freckle".length()-1));

Freckl

**24)** System.out.println("Jishan".substring(0,"Jishan".length()));

Jishan

**25)** String phrase = "Ninad!!";

System.out.println(phrase.substring(0,phrase.indexOf('!')));

Ninad

phrase.indexOf('!') -> 5

**26)** String phrase = "I got a 97 in Java!!";

System.out.println(phrase.substring(0,phrase.indexOf('7')) + 8 + phrase.substring(phrase.indexOf('7')+1));

I got a 98 in Java!!

**27)** String phrase = "I got a 97 in Java!!";

System.out.println(phrase.substring(0,phrase.indexOf("!")));

I got a 97 in Java

**28)** String course = "Computer Science";

System.out.println(course.substring(course.length()+1));

ERROR