**Activity 2**

**Question 1:** What is stored in the integer variables account1, account2 and account3 after the following statements?

int account1 = 12, account2 = 5;

int account3 = 3 \* account2++ + --account1 \* 2;

|  |  |
| --- | --- |
| account1 |  |
| account2 |  |
| account3 |  |

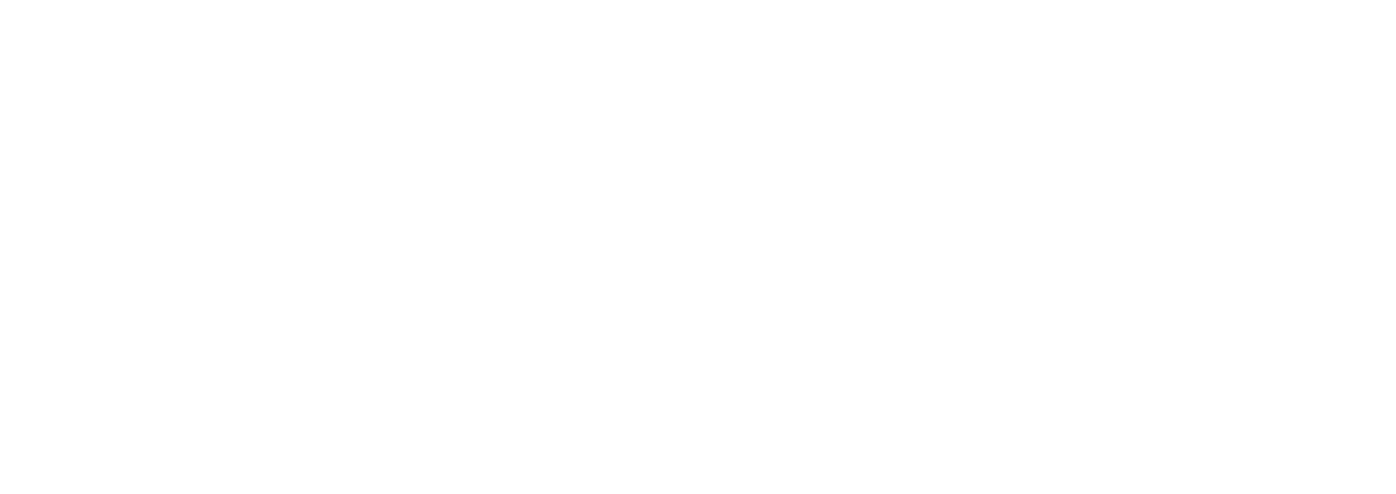
**Question 2:** Write a valid Java expression for the following algebraic expressions. Then test with the values x = 2 and y = 8.

6𝑥 + 3 + 13 ∗ (8𝑥 − 𝑦)

*7*𝑥

𝑧 =

**Question 3:** What is the output of the following code segment? Clearly mark spaces and blank lines.



public static void main(String[] args) {

System.out.print("Thank" + "you"+ " from PIZZA HUT team"); System.out.print("");

System.out.println(""); double onepizza= 25.99;

int nbpizza = 2; double amount, total, GST; amount = onepizza\*nbpizza;

GST = 0.05\* amount;

System.out.println("amount = "+"onepizza\*nbpizza"+"S"); System.out.println("total = " + "amount+GST "+ "$");

}

**Question 4:** The following Java program contains several syntax errors. Identify and correct then. Copy the code into Eclipse/IntelliJ and then try to compile the program to make sure your answers are right.

public static void main (String[] args)

{

constant TAX\_RATE = 0.15; int quantity;

double subtotal, tax, totalCost, unitPrice; quantity = 13;

System.out.println("The product quantity is: " + quantity ); unitPrice\_1 = 18.5;

System.out.print("The unit price is:; )" System.out.print(unit\_Price); System.out.println("");

subtotal = quantity\_1 \* unitPrice; tax = (String) subtotal + TAX\_RATE; totalCost = subtotal + tax;

System.out.println ("Subtotal: " + subtotal); System.out.println ("Tax: " + tax); System.out.println ("Total: " + totalCost);

}

**Question 5:** What is the output of:

String s1, s2, s3;

s1 = "Quest for the holy Grail";

s2 = s1.toLowerCase();

s3 = s1 + " " + s2;

System.*out*.println(s3.replace('h', 'z'));

**Question 6:** Assume the following declaration: String name = "Your Name Here";

What is the value of the following expressions?

name.substring(9);

name.substring(1,6);

name.substring(1, name.length()-1);

name.length();

name.indexOf('r');

name.indexOf('n');

**Question 7:** What is the output of the following code:

System.*out*.println("result: 3+4");

System.*out*.println("result: " + 3+4);

System.*out*.println("result: " + 3+"4");

System.*out*.println("result: " + (3+4));

Answer before testing in your IDE

**Submit on Omnivox before end of class to confirm your attendance. If you are not complete by end of class, upload what you have completed up until that point. Submissions should be completed and submitted individually, do not upload submissions for multiple students, only your own.**