		Strin
If both operands are numeric, the + operator adds the operands.	If either operand is a String, the + operator concatenates the operan	String Concatenation Operator (OCA Objective 3.1)
operato	- operato	(OCA
r adds the operands.	ir concatenates the of	Objective 3.1)
)eran	ij Salvisi

Increment/Decrement Operators (OCA Objectives 3.1 and 3.2)

- Prefix operators (for example, ++x and --x) run before the value is used in the expression.
- expression. Postfix operators (for example, x++ and x--) run after the value is used in the
- In any expression, both operands are fully evaluated before the operator is applied
- Variables marked final cannot be incremented or decremented

Ternary (Conditional) Operator (OCA Objective 3.1)

- Carry one of two values based on whether its boolean expression is true or false.
- Returns the value after the ? if the expression is true.
- Returns the value after the : if the expression is false

Logical Operators (OCA Objective 3, I)

- The exam covers six "logical" operators: &, |, ^, !, &&, and ||.
- ☐ Logical operators work with two expressions (except for !) that must resolve to boolean values
- The && and & operators return true only if both operands are true
- The || and | operators return true if either or both operands are true
- Ü The &E and [] operators are known as short-circuit operators.
- The && operator does not evaluate the right operand if the left operand
- The | | does not evaluate the right operand if the left operand is true.
- The & and | operators always evaluate both operands.
- operand is true. The ^ operator (called the "logical XOR") returns true if exactly one
- The 1 operator (called the "inversion" operator) returns the opposite value of the boolean operand it precedes.

SELLIES

```
class Hexy
                                                                  public static void main (String[] args) {
system.out.println(s):
                       String s = (1<40)?"life":(i>50)?"universe":"everythi
                                              int 1 = 42;
```

What is the result?

```
A. mull
```

1116

universe

everything

Compilation fails

An exception is thrown at runtime

Given:

```
public class Dog {
                                                                                                                                                                         public static void main(String[] args) {
                                                                                                                                                                                               Dog(String s) { name = 's; }
                                                                                                                                                                                                                            String name;
                                                                                                                                               Dog dl = new Dog("Bol");
                                                   d2 = d1;
                                                                      Dog d3 = new Dog("Boi");
                                                                                                System.out.print((d1 == d2) .+ " ");
                                                                                                                        Dog d2 = new Dog("Tyri");
System.out.print((dI == d3) +
                         System.out.print((dl == d2) + " ");
```

What is the result?

- A. true true true
- true true false
- false true false
- false true true
- false false false
- An exception will be thrown at runtime