6	**Define Operator? List and explain different operators available in Java?**
	
	Solution: An operator in Java is a special symbol that is used to perform specific operations involving one or more operands. For example, + is an operator used for addition, and - is an operator used for subtraction.
	
	Java supports several types of operators, some of which are listed below:
	
	1. **Arithmetic Operators**: These are used to perform basic mathematical operations. They include + (addition), - (subtraction), * (multiplication), / (division), and % (modulus).
	2. **Assignment Operators**: These are used to assign values to variables. They include = (assign), += (add and assign), -= (subtract and assign), *= (multiply and assign), /= (divide and assign), and %= (modulus and assign).
	3. **Relational Operators**: These are used to compare two values. They include == (equal to), != (not equal to), < (less than), > (greater than), <= (less than or equal to), and >= (greater than or equal to).
	4. **Logical Operators**: These are used to form more complex conditions by combining boolean expressions. They include && (logical AND), || (logical OR), and ! (logical NOT).
	5. **Unary Operators**: These are used to perform various operations such as incrementing/decrementing a value by one, negating an expression, or inverting the value of a boolean. They include ++ (increment), -- (decrement), - (negate), and ! (logical complement).
	6. **Bitwise Operators**: These are used to perform operations at the bit level. They include & (bitwise AND), | (bitwise OR), ^ (bitwise XOR), ~ (bitwise complement), << (left shift), >> (signed right shift), and >>> (unsigned right shift).
	7. **Ternary Operator**: Also known as the conditional operator, this is used to make a decision based on two different conditions. The operator is ? :. It's a shorthand for if-else statement.
	8. **InstanceOf Operator**: This is used to check whether an object is an instance of a specific class or an interface. The operator is instanceof.
	
	Here are a few examples:
	
	int a = 10, b = 20; // Assigning values using assignment operator
	int c = a + b; // Arithmetic operator
	boolean d = a > b; // Relational operator
	boolean e = (a > 5) && (b > 5); // Logical operator
	a++; // Unary operator
	int f = a & b; // Bitwise operator
	int g = (a > b) ? a : b; // Ternary operator
	String str = "Hello, World!";
	boolean h = str instanceof String; // InstanceOf operator
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