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Batch Code: ANP-C6315

Lab Assignment – 3

Question 1:

INPUT:

```
public class Employee {
    protected int id;
    protected int age;
    protected String name;
    protected boolean isPermanent;

    public static void main(String[] args) {
        System.out.println("Successfully started");
    }

    public Employee() {
        // Default constructor
    }

    public Employee(int id, int age, String name, boolean isPermanent) {
        this.id = id;
        this.age = age;
        this.name = name;
        this.isPermanent = isPermanent;
    }
```

```
    public static void main(String[] args) {
        System.out.println("Successfully started");

        // Create an Employee object
        Employee employee = new Employee(1, 35, "John Doe", true);

        // Accessing and printing member variables
        System.out.println("Employee ID: " + employee.id);
        System.out.println("Employee Age: " + employee.age);
        System.out.println("Employee Name: " + employee.name);
        System.out.println("Is Employee Permanent? " + employee.isPermanent);
    }
}
```

Question 2: Write a program for inc/dec operator include four type operators and display values.

```
public class IncrementDecrementOperatorsDemo {
    public static void main(String[] args) {
        int num = 5;

        System.out.println("Initial Value:");
        System.out.println("num = " + num);

        // Pre-increment (++num)
        int preIncrementResult = ++num;
        System.out.println("\nUsing '++num' (Pre-increment):");
        System.out.println("preIncrementResult = ++num -> preIncrementResult = " + preIncrementResult);
        System.out.println("num after pre-increment = " + num);
```

```
        num = 5; // Reset num to its initial value

        // Post-increment (num++)
        int postIncrementResult = num++;
        System.out.println("\nUsing 'num++' (Post-increment):");
        System.out.println("postIncrementResult = num++ -> postIncrementResult = " +
postIncrementResult);
        System.out.println("num after post-increment = " + num);

        num = 5; // Reset num to its initial value

        // Pre-decrement (--num)
        int preDecrementResult = --num;
        System.out.println("\nUsing '--num' (Pre-decrement):");
        System.out.println("preDecrementResult = --num -> preDecrementResult = " + preDecrementResult);
        System.out.println("num after pre-decrement = " + num);

        num = 5; // Reset num to its initial value

        // Post-decrement (num--)
        int postDecrementResult = num--;
        System.out.println("\nUsing 'num--' (Post-decrement):");
        System.out.println("postDecrementResult = num-- -> postDecrementResult = " +
postDecrementResult);
        System.out.println("num after post-decrement = " + num);
    }
}
```

OUTPUT:

Pre-increment:

Before increment: num1 = 10

After increment: num1 = 11

Post-increment:

Before increment: num2 = 5

After increment: num2 = 5

After post-increment: num2 = 6

Pre-decrement:

Before decrement: num1 = 11

After decrement: num1 = 10

Post-decrement:

Before decrement: num2 = 6

After decrement: num2 = 6

After post-decrement: num2 = 5