

# More on Flow Control & Parameter passing

## 1. Write a program to the pass by value concept.

```
public class PassByValueExample {  
  
    public static void main(String[] args) {  
        int num = 10;  
        System.out.println("Before calling modifyValue: " + num);  
        modifyValue(num);  
        System.out.println("After calling modifyValue: " + num);  
    }  
  
    static void modifyValue(int value) {  
        System.out.println("Inside modifyValue, before modification: " + value);  
        value = 20;  
        System.out.println("Inside modifyValue, after modification: " + value);  
    }  
}
```

## 2. Write a program to pass the value by reference

```
public class PassByReferenceExample {  
  
    public static void main(String[] args) {  
        MyNumber num = new MyNumber(10);  
        System.out.println("Before calling modifyValue: " + num.getValue());  
        modifyValue(num);  
        System.out.println("After calling modifyValue: " + num.getValue());  
    }  
  
    static void modifyValue(MyNumber value) {  
        System.out.println("Inside modifyValue, before modification: " + value.getValue());  
        value.setValue(20);  
        System.out.println("Inside modifyValue, after modification: " + value.getValue());  
    }  
}
```

```

class MyNumber {
    private int value;

    public MyNumber(int value) {
        this.value = value;
    }

    public int getValue() {
        return value;
    }

    public void setValue(int value) {
        this.value = value;
    }
}

```

### 3. Write a program to print the number from 300 to 1 using do while

```

public class DoWhileExample {

    public static void main(String[] args) {
        int num = 300;

        do {
            System.out.println(num);
            num--;
        } while (num >= 1);
    }
}

```

### 4. Write a program to Fibonacci series using for loop

```

public class Loop_Fibonacci {
    public static void main(String[] args) {
        int n = 10;
        int first = 0, second = 1;
        for (int i = 1; i <= n; i++) {
            System.out.println(first + "");
            int next = first + second;
            first = second;
            second = next;
        }
    }
}

```

### 3. Write a program to find Factorial using for loop.

```
public class Factorial {  
  
    public static void main(String[] args) {  
        System.out.println("Enter a number: ");  
        int num = 5;  
        int factorial = 1;  
        for(int i=1; i<= num; i++)  
            factorial = factorial*i;  
        System.out.println("Factorial of" + num + "is" + factorial);  
    }  
}
```

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