

Enums

What is Enumeration or Enum in Java?

A Java enumeration is a class type. Although we don't need to instantiate an enum using **new**, it

has the same capabilities as other classes. This fact makes Java enumeration a very powerful tool. Just like classes, you can give them constructors, add instance variables and methods, and even implement interfaces.

```
enum Color {  
    RED,  
    GREEN,  
    BLUE;  
}  
  
public class Test {  
    // Driver method  
    public static void main(String[] args)  
    {  
        Color c1 = Color.RED;  
        System.out.println(c1);  
    }  
}
```

```
// enum declaration inside a class.  
  
public class Test {  
    enum Color {  
        RED,  
        GREEN,  
        BLUE;  
    }  
  
    // Driver method  
    public static void main(String[] args)  
    {  
        Color c1 = Color.RED;  
        System.out.println(c1);  
    }  
}
```

```

import java.util.Scanner;

// An Enum class
enum Day {
    SUNDAY,
    MONDAY,
    TUESDAY,
    WEDNESDAY,
    THURSDAY,
    FRIDAY,
    SATURDAY;
}

// Driver class that contains an object of "day" and
// main().
public class Test {
    Day day;

    // Constructor
    public Test(Day day) { this.day = day; }

    // Prints a line about Day using switch
    public void dayIsLike()
    {
        switch (day) {
            case MONDAY:
                System.out.println("Mondays are bad.");
                break;
            case FRIDAY:
                System.out.println("Fridays are better.");
                break;
            case SATURDAY:
            case SUNDAY:
                System.out.println("Weekends are best.");
                break;
            default:
                System.out.println("Midweek days are so-so.");
                break;
        }
    }

    // Driver method
    public static void main(String[] args)
    {
        String str = "MONDAY";
        Test t1 = new Test(Day.valueOf(str));
        t1.dayIsLike();
    }
}

```