

# Enum

## revisar

- <https://www.mkyong.com/java/java-enum-example/>

## ejemplos

### simple

```
public enum UserStatus {
    PENDING,
    ACTIVE,
    INACTIVE,
    DELETED;
}
```

```
System.out.println(UserStatus.ACTIVE);    //ACTIVE
```

### simple + campo

```
public enum WhoisRIR {
    ARIN("whois.arin.net"),
    RIPE("whois.ripe.net"),
    APNIC("whois.apnic.net"),
    AFRINIC("whois.afrinic.net"),
    LACNIC("whois.lacnic.net"),
    JPNIC("whois.nic.ad.jp"),
    KRNIC("whois.nic.or.kr"),
    CNNIC("ipwhois.cnnic.cn"),
    UNKNOWN("");

    private String url;

    WhoisRIR(String url) {
        this.url = url;
    }

    public String url() {
        return url;
    }
}
```

```
System.out.println(WhoisRIR.ARIN.url());    //whois.arin.net
```

## simple + campo + lógica

```
public enum Operation {
    PLUS,
    MINUS,
    TIMES,
    DIVIDE;

    double calculate(double x, double y) {
        switch (this) {
            case PLUS:
                return x + y;
            case MINUS:
                return x - y;
            case TIMES:
                return x * y;
            case DIVIDE:
                return x / y;
            default:
                throw new AssertionError("Unknown operations " + this);
        }
    }
}
```

```
double result = Operation.PLUS.calculate(1, 2);
System.out.println(result); //3.0
```

## bucle

```
for (UserStatus status : UserStatus.values()) {
    System.out.println(status);
}
```

```
PENDING
ACTIVE
INACTIVE
DELETED
```

## comparación

```
WhoisRIR rir = WhoisRIR.APNIC;

if(rir == WhoisRIR.APNIC) {
```

```
        System.out.println("This is APNIC : " + rir.url()); //This is APNIC :  
whois.apnic.net  
    }
```

## comparacion 2

```
public class Test {  
  
    public static void main(String[] args) {  
  
        WhoisRIR rir = WhoisRIR.RIPE;  
  
        switch (rir) {  
            case ARIN:  
                System.out.println("This is ARIN");  
                break;  
            case APNIC:  
                System.out.println("This is APNIC");  
                break;  
            case RIPE:  
                System.out.println("This is RIPE"); // This is RIPE  
                break;  
            default:  
                throw new AssertionError("Unknown RIR " + rir);  
        }  
    }  
}
```

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