СОПОСТАВЛЕНИЕ С ОБРАЗЦОМ

(Pattern Matching)

СОПОСТАВЛЕНИЕ С ОБРАЗЦОМ

```
{
    case 1 => "one"
    case 2 => "two"
}
```

СОПОСТАВЛЕНИЕ С ОБРАЗЦОМ

```
x match {
    case 1 => "one"
    case 2 => "two"
}
```

СОПОСТАВЛЕНИЕ С ОБРАЗЦОМ

```
def numberName(x: Int) = x match {
    case 1 => "one"
    case 2 => "two"
}
```

СОПОСТАВЛЕНИЕ С ОБРАЗЦОМ

```
def numberName(x: Int): String = x match {
    case 1 => "one"
    case 2 => "two"
}
```

```
numberName(1) == "one"
```

```
numberName(2) == "two"
```

```
numberName(3) == throw MatchError !!!!!
```

СОПОСТАВЛЕНИЕ С ОБРАЗЦОМ

```
def numberName(x: Int): String = x match {
    case 1 => "one"
    case 2 => "two"
    case _ => "unknown"
}
```

```
numberName(1) == "one"
```

```
numberName(2) == "two"
```

```
numberName(3) == "unknown"
```

СОПОСТАВЛЕНИЕ С ОБРАЗЦОМ

```
def numberName(x: Int): String = x match {
    case 1 => "one"
    case _ => "unknown"
    case 2 => "two"
}
```

```
numberName(1) == "one"
```

```
numberName(2) == "unknown"
```

```
numberName(3) == "unknown"
```

СОПОСТАВЛЕНИЕ С ОБРАЗЦОМ

```
def numberName(x: Int): List[String] = x match
{
    case 1       => "one"
    case 2       => "two"
    case 3 | 4 => "three or four"
    case _       => "unknown"
```

```
numberName(1) == "one"
```

```
numberName(2) == "two"
```

```
numberName(3) == "three of four"
```

```
numberName(4) == "three of four"
```

СОПОСТАВЛЕНИЕ С ОБРАЗЦОМ

```
def numberName(x: Int): String = x match {
    case 1          => "one"
    case 2          => "two"
    case x if x % 2 == 0 => "unknown even"
    case _          => "unknown odd"
}
```

```
numberName(1) == "one"
```

```
numberName(2) == "two"
```

```
numberName(3) == "unknown odd"
```

```
numberName(4) == "unknown even"
```

CASE CLASS

```
case class Address(country: String, city: String)
```

```
def addressInfo(address: Address): String = address match{
    case Address("Russia", _) => "russian"
    case Address("Japan", _)  => "japanese"
    case _ => "no info"
}
```

CASE CLASS

```
case class Address(country: String, city: String)
```

```
def addressInfo(address: Address): String = address match{
    case Address("Russia", "Moscow") => "russian capital"
    case Address("Russia", _) => "russian"
    case Address("Japan", "Tokio")  => "japanese capital"
    case Address("Japan", _)  => "japanese"
    case _ => "no info"
}
```

CASE CLASS

```
case class Address(country: String, city: String)
```

```
def addressInfo(address: Address): String = address match{
    case Address("Russia", "Moscow") => "russian capital"
    case Address("Russia", city) => s"russian $city"
    case Address("Japan", "Tokio")  => "japanese capital"
    case Address("Japan", city)  => s"japanese $city"
    case _ => "no info"
}
```

Мы изучили основы сопоставления с образцом

В следующем видео разберём его подробнее