Enumerations

An enumeration defines a common type for a group of related values and enables you to work with those values in a type-safe way within your code.

Enumeration Syntax:

```
enum Enumeration-Name {
    case enumeration-case-1
    case enumeration-case-2
    case enumeration-case-3
    case enumeration-case-4
}
```

Enumerations

Example

```
enum CompassPoint {
    case north
    case south
    case east
    case west
}
```

Declare a variable, of type CompassPoint, assign enumeration case west as value:

```
var direction = CompassPoint.west
```

Once direction is declared as of type CompassPoint, a value can be assigned using the short syntax, instead of having to use the long CompassPoint.north, you can write:

```
direction = .north
```

Enumerations

```
enum CompassPoint {
    case north
    case south
    case east
    case west
}
```

Use an if statement to compare the value of enumeration type.

```
if direction == .north {
    print("up")
}
else if direction == .south {
    print("down")
}
else if direction == .east {
    print("right")
}
else {
    print("left")
}
```

Switch conditional statement

A switch statement considers a value and compares it against several possible matching patterns. It then executes an appropriate block of code, based on the first pattern that matches successfully. A switch statement provides an alternative to the if statement for responding to multiple potential states.

```
switch some-value-to-consider {
case value-1:
    // respond to value 1
case value-2:
    // respond to value 2
case value-3:
    // respond to value 3
default:
    // respond to any other value.
}
```

Switch

Example

```
let someCharacter: Character = "z"
switch someCharacter {
case "a":
    print("The first letter of the alphabet")
case "z":
    print("The last letter of the alphabet")
default:
    print("Some other character")
}
```

Enumerations

```
enum CompassPoint {
    case north
    case south
    case east
    case west
}
```

Use an if statement to compare the value of enumeration type.

```
switch direction {
case .north:
    print("up")
case .south:
    print("down")
case .east:
    print("right")
case .west:
    print("left")
}
```