III / Conditions

=> Conditions using if statements

```
Exemple :

let firstCard = 11
let secondCard = 10

if firstCard + secondCard == 21 {
    print("Blackjack!")
}
```

=> run if the condition is true with alternative code to run if the condition is false, using else

```
if firstCard + secondCard == 21 {
   print("Blackjack!")
} else {
   print("Regular cards")
}
```

Exemple:

Exemple 1:

=> conditions together using else if

```
if firstCard + secondCard == 2 {
    print("Aces - lucky!")
} else if firstCard + secondCard == 21 {
    print("Blackjack!")
} else {
```

```
print("Regular cards")

Exemple 2:

if score > 9000 {
    print("It's over 9000!")
} else if score == 9000 {
    print("It's exactly 9000!")
} else {
    print("It's not over 9000!")
}

Total score: 12/12 checked
```

Combining conditions

=> Two special operators combine conditions together: they are && and ||

Check that the age of two people are both over a certain value :

```
let age1 = 12
let age2 = 21

if age1 > 18 && age2 > 18 {
    print("Both are over 18")
}

Exemple 2:

if isOwner == true && isEditingEnabled || isAdmin == true {
    print("You can delete this post")
}
```

Evaluates as true if either item passes the test:

```
Exemple 1:
if age1 > 18 || age2 > 18 {
  print("At least one is over 18")
}
Exemple 2:
if isOwner == true || isAdmin == true {
  print("You can delete this post")
}
Use parentheses to make the result clear:
if (isOwner == true && isEditingEnabled) || isAdmin == true {
  print("You can delete this post")
}
Total score: 12/12 checked
The ternary operator
The ternary operator is a condition plus true or false blocks all in one
Exemple 1:
let firstCard = 11
let secondCard = 10
print(firstCard == secondCard ? "Cards are the same" : "Cards are
different")
Exemple 2:
let isAuthenticated = true
```

print(isAuthenticated ? "Welcome!" : "Who are you?")

Total score: 12/12 checked

Switch statements

It list all possible outcomes and what should happen for each of them

```
Exemple :

let weather = "sunny"

switch weather {
  case "rain":
    print("Bring an umbrella")
  case "snow":
    print("Wrap up warm")
  case "sunny":
    print("Wear sunscreen")
  default:
    print("Enjoy your day!")
}
```

NB : **default** – is required because Swift makes sure you cover all possible cases

Use the fallthrough keyword to Continue on the next case:

```
Exemple:
```

```
switch weather {
case "rain":
    print("Bring an umbrella")
case "snow":
    print("Wrap up warm")
case "sunny":
    print("Wear sunscreen")
    fallthrough
default:
    print("Enjoy your day!")
}
```

- > Swift requires that its **switch** statements are exhaustive
- > Checking the same value repeatedly

Total score: 6/6 checked

Range operators

```
Two ways of making ranges: the ..< and ... operators:

Exemple 1:

1..<5 excluding the final value / 1...5 including the final value
```

Exemple 2:

```
let score = 85

switch score {
  case 0..<50:
    print("You failed badly.")
  case 50..<85:
    print("You did OK.")
  default:
    print("You did great!")
}</pre>
```

= > print a range of values

Exemple 3:

```
let names = ["Piper", "Alex", "Suzanne", "Gloria"]
print(names[1...3])
```

=> print one-sided range

Exemple 4:

print(names[1...])

Total score: 6/6 checked