Unit 2—Lesson 2: Functions

Le Bar de Greg

Problème

```
print(“.: Le Bar de Greg :.”)
print(“————————————————————”)
print(“Résumé du ticket de caisse 02 Mai 2019”)
```

```
print(“.: Le Bar de Greg :.”)
print(“————————————————”)
print(“Résumé du ticket de caisse 02 Mai 2019”)

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print(“.: Le Bar de Greg :.”)
print(“————————————————”)
print(“Résumé du ticket de caisse 02 Mai 2019”)

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print(“.: Le Bar de Greg :.”)
print(“————————————————”)
print(“Résumé du ticket de caisse 02 Mai 2019”)
```

Unit 2—Lesson 2: Functions

Functions

Defining a function

```
func functionName (parameters) -> ReturnType {
    // Body of the function
}
```

Functions

Defining a function

```
func displayBarGreg() {
  print(“.: Le Bar de Greg :.”)
  print(“————————————————”)
  print(“Résumé du ticket de caisse 02 Mai 2019”)
  }
```

Parameters

```
func displayBarGreg() {
  print(“.: Le Bar de Greg :.”)
  print(“————————————————”)
  print(“Résumé du ticket de caisse 02 Mai 2019”)
  }
```

```
displayBarGreg()
```

```
.: Le Bar de Greg :.
  ————————————————

  Résumé du ticket de caisse 02 Mai 2019
```

```
print(“.: Le Bar de Greg :.”)
print(“————————————————”)
print(“Résumé du ticket de caisse 02 Mai 2019”)

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print(“.: Le Bar de Greg :.”)
print(“————————————————”)
print(“Résumé du ticket de caisse 02 Mai 2019”)

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print(“.: Le Bar de Greg :.”)
print(“————————————————”)
print(“Résumé du ticket de caisse 02 Mai 2019”)
```

```
displayBarGreg()

▪▪▪

displayBarGreg()

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displayBarGreg()
```

Parameters

```
func displayBarGreg() {
  print(“.: Le Bar de Greg :.”)
  print(“————————————————”)
  print(“Résumé du ticket de caisse 02 Mai 2019”)
  }
```

```
displayBarGreg()
```

```
.: Le Bar de Greg :.
  ————————————————

  Résumé du ticket de caisse 02 Mai 2019
```

Parameters

```
func displayBarGreg(day: Int) {
  print(“.: Le Bar de Greg :.”)
  print(“————————————————”)
  print(“Résumé du ticket de caisse \(day) Mai 2019”)
  }
```

```
displayBarGreg(day: 10)
```

```
.: Le Bar de Greg :.
  ————————————————

  Résumé du ticket de caisse 10 Mai 2019
```

Argument labels

```
func sayHello(firstName: String) {
  print("Hello, \(firstName)!")
}

sayHello(firstName: "Amy")
```

Argument labels

```
func sayHello(to: String, and: String) {
  print("Hello \(to) and \(and)")
}

sayHello(to: "Luke", and: "Dave")
```

Parameters

```
func triple(value: Int) {
  let result = value * 3
  print("If you multiply \(value) by 3, you'll get \(result).")
}

triple(value: 10)
```

```
If you multiply 10 by 3, you'll get 30.
```

Parameters

Multiple parameters

```
func multiply(firstNumber: Int, secondNumber: Int) {
  let result = firstNumber * secondNumber
  print("The result is \(result).")
}

multiply(firstNumber: 10, secondNumber: 5)
```

```
The result is 50.
```

Return values

```
func multiply(firstNumber: Int, secondNumber: Int) -> Int {
  let result = firstNumber * secondNumber
  return result
}
```

Return values

```
func multiply(firstNumber: Int, secondNumber: Int) -> Int {
 return firstNumber * secondNumber
}
```

```
let myResult = multiply(firstNumber: 10, secondNumber: 5)
print("10 * 5 is \(myResult)")
```

Unit 2—Lesson 2
Lab: Functions

Open and complete the exercises in `Lab - Functions.playground`

Default parameter values

```
func display(teamName: String, score: Int = 0) {
  print("\(teamName): \(score)")
}

display(teamName: "Wombats", score: 100)
display(teamName: "Wombats")
```

```
Wombats: 100
Wombats: 0
```

Argument labels

External names

```
func sayHello(to person: String, and anotherPerson: String) {
  print("Hello \(person) and \(anotherPerson)")
}

sayHello(to: "Luke", and: "Dave")
```

Argument labels

Omitting labels

```
print("Hello, world!")
```

```
func add(_ firstNumber: Int, to secondNumber: Int) -> Int {
    return firstNumber + secondNumber
}

let total = add(14, to: 6)
```