Congratulations! You passed!

Grade received 100% To pass 80% or higher

Go to next item

1/1 point

1. What is the output of the following code?

```
1 var sum = 0
   val numberList = listOf(2, 8, 3, 11)
  numberList.forEach { number ->
    sum += number
6 println(sum)
```

- 24
- O 11
- O 2

⊘ Correct

Correct! The code would iterate over each element and then add each element's value to a variable

2. What is the output of this code:

1/1 point

```
val color: String,
val amount: Int
       val list = listOf(
| Car("Black", 43000),
| Car("Red", 30000),
| Car("White", 36000)
       val output = list.map {
11 | it.color
12 }
15
      println(output)
```

- [Black, Red, White]
- Car(color=Black, amount=43000), Car(color=Red, amount=30000), Car(color=White, amount=36000)]
- O [43000, 30000, 36000]

⊘ Correct

Correct! The code transforms the initial list into a new list that contains values of color.

3. What do you expect to get as the output of this code?

1/1 point

```
1 val list = listOf(1, 3, 4, 7)
   val output = list.fold(3) { x, y ->
9 println(output)
```

- O 3
- 18
- O 12

⊘ Correct

Correct! The **fold function** accumulates a value starting from the initial value of 3 and then applies the operation to each element in the list.

-,------

- O 3
- O 17
- 13

Correct Correct

Correct! You correctly computed the outputs of the map, filter and fold functions in the code.

5. What is the output of the code below:

1/1 point

- [Car(color=Red, amount=30000)]
- $\begin{tabular}{ll} \hline & [Car(color=Black, amount=43000), Car(color=Red, amount=30000), Car(color=White, amount=36000)] \\ \hline \end{tabular}$
- [Car(color=Black, amount=43000), Car(color=White, amount=36000)]

\bigcirc Correct

Correct! This code above filters the 'car' elements that have 'amount' > 35000, and returns a new list with only those elements that comply with the condition.