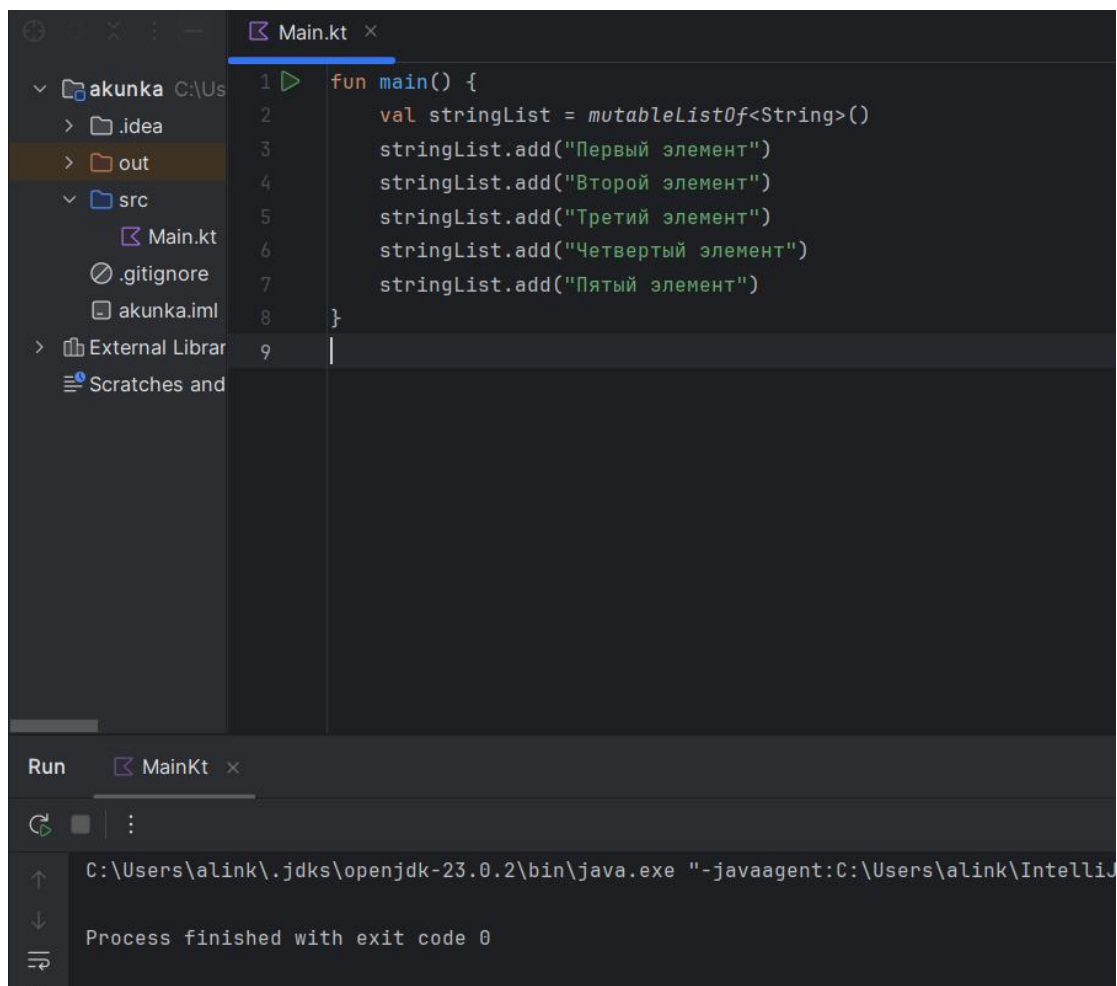


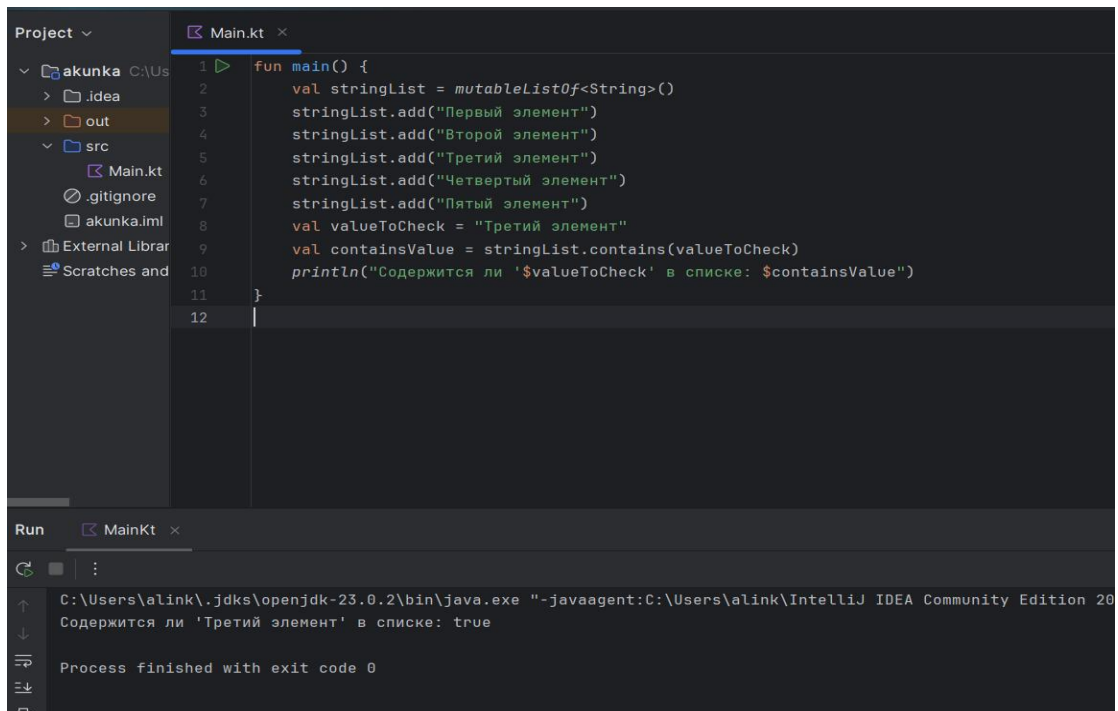
## Практическая работа № 7

Выполнили: Андрухова и Загородняя.

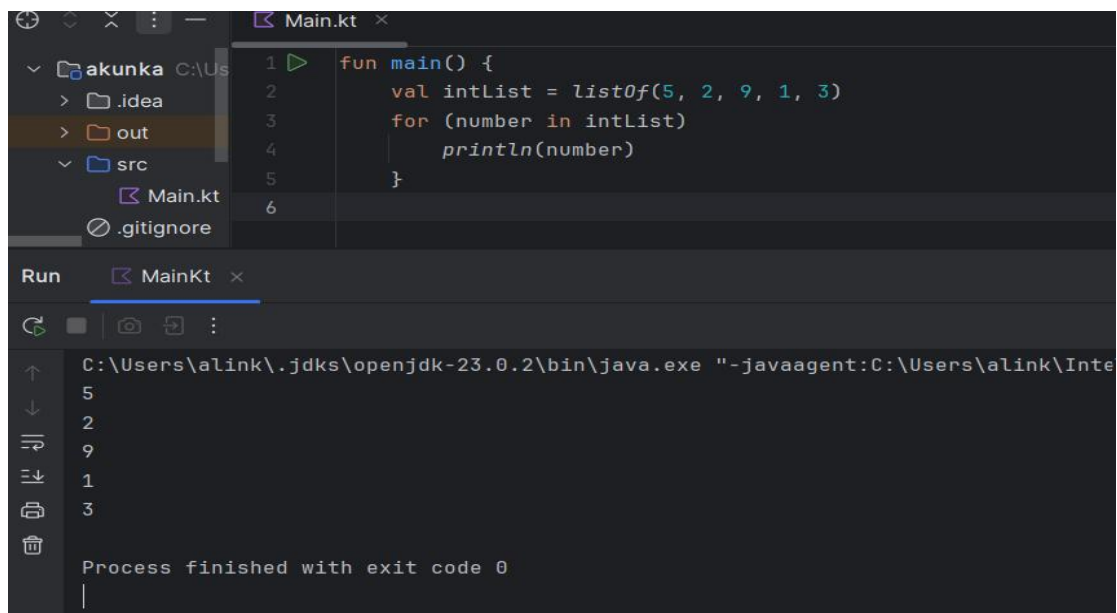
```
1.fun main() {  
    val stringList = mutableListOf<String>()  
    stringList.add("Первый элемент")  
    stringList.add("Второй элемент")  
    stringList.add("Третий элемент")  
    stringList.add("Четвертый элемент")  
    stringList.add("Пятый элемент")  
}
```



```
2. val valueToCheck = "Третий элемент"  
    val containsValue = stringList.contains(valueToCheck)  
    println("Содержится ли '$valueToCheck' в списке: $containsValue")
```



```
3.fun main() {  
val intList = listOf(5, 2, 9, 1, 3)  
for (number in intList)  
    println(number)  
}
```



```
4. fun main() {
```

```

val intList = listOf(5, 2, 9, 1, 3)
for (number in intList)
    println(number)
val sortedIntList = intList.sorted()
println("Отсортированный список целых чисел: $sortedIntList")
}

```

```

Main.kt
1 fun main() {
2     val intList = listOf(5, 2, 9, 1, 3)
3     for (number in intList)
4         println(number)
5     val sortedIntList = intList.sorted()
6     println("Отсортированный список целых чисел: $sortedIntList")
7 }

```

```

Run MainKt
C:\Users\alink\jdk\openjdk-23.0.2\bin\java.exe "-javaagent:C:\Users\alink\IntelliJ IDEA Com
5
2
9
1
3
Отсортированный список целых чисел: [1, 2, 3, 5, 9]
Process finished with exit code 0

```

```

5.fun main() {
    val intList = listOf(1, 2, 3, 4, 5, 6,7,8,9,10)
    val evenNumbers = intList.filter { it % 2 == 0 }
    println(evenNumbers)
}

```

```

Main.kt
1 fun main() {
2     val intList = listOf(1, 2, 3, 4, 5, 6,7,8,9,10)
3     val evenNumbers = intList.filter { it % 2 == 0 }
4     println(evenNumbers)
5 }

```

```

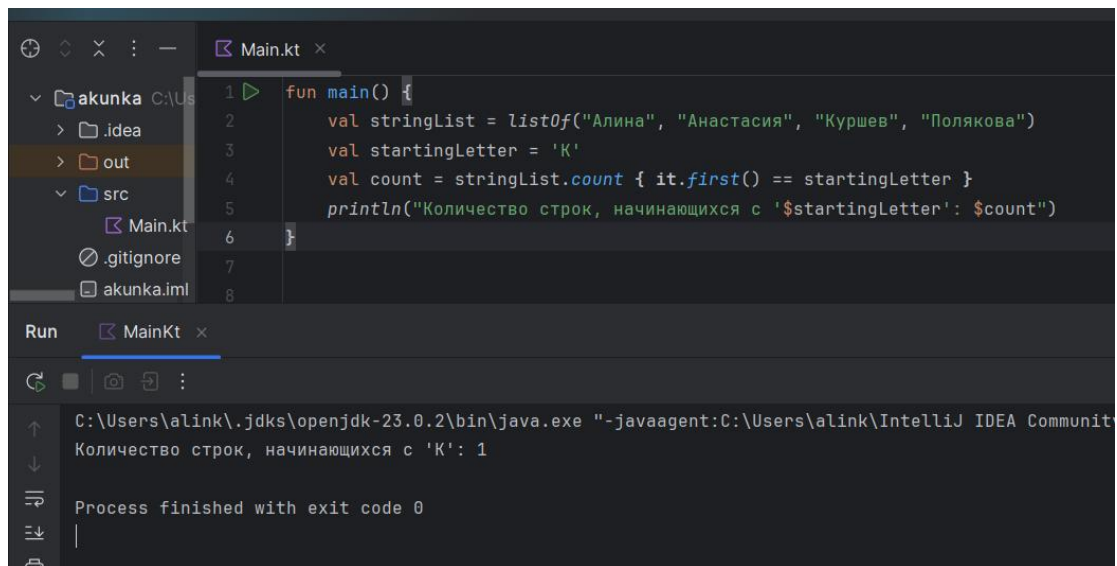
Run MainKt
C:\Users\alink\jdk\openjdk-23.0.2\bin\java.exe "-javaagent:C:\Users\alink\IntelliJ I
[2, 4, 6, 8, 10]
Process finished with exit code 0

```

```

6.fun main() {
    val stringList = listOf("Алина", "Анастасия", "Куршев", "Полякова")
    val startingLetter = 'К'
    val count = stringList.count { it.first() == startingLetter }
    println("Количество строк, начинающихся с '$startingLetter':
$count")
}

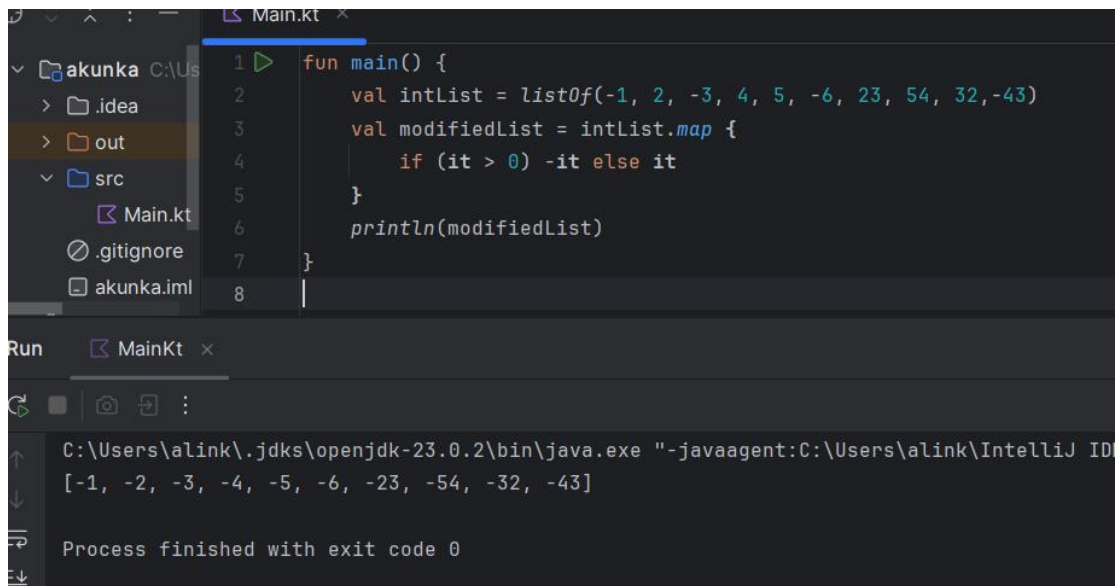
```



```

7.fun main() {
    val intList = listOf(-1, 2, -3, 4, 5, -6, 23, 54, 32, -43)
    val modifiedList = intList.map {
        if (it > 0) -it else it
    }
    println(modifiedList)
}

```



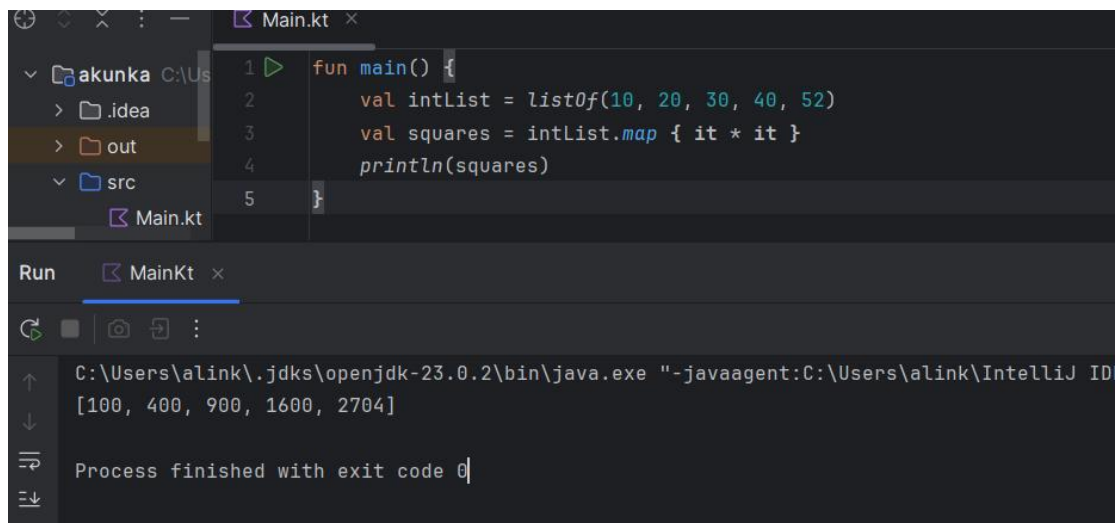
The screenshot shows the IntelliJ IDEA interface. The left sidebar displays a project structure with folders `.idea`, `out`, and `src`, and files `Main.kt`, `.gitignore`, and `akunka.iml`. The `Main.kt` file is open, showing the following Kotlin code:

```
1 fun main() {  
2     val intList = listOf(-1, 2, -3, 4, 5, -6, 23, 54, 32, -43)  
3     val modifiedList = intList.map {  
4         if (it > 0) -it else it  
5     }  
6     println(modifiedList)  
7 }  
8
```

Below the code editor, the `Run` tab is active, showing the execution command and output:

```
C:\Users\alink\.jdk\openjdk-23.0.2\bin\java.exe "-javaagent:C:\Users\alink\IntelliJ ID  
[-1, -2, -3, -4, -5, -6, -23, -54, -32, -43]  
  
Process finished with exit code 0
```

```
8.fun main() {  
    val intList = listOf(10, 20, 30, 40, 52)  
    val squares = intList.map { it * it }  
    println(squares)  
}
```



The screenshot shows the IntelliJ IDEA interface. The left sidebar displays a project structure with folders `.idea`, `out`, and `src`, and files `Main.kt`, `.gitignore`, and `akunka.iml`. The `Main.kt` file is open, showing the following Kotlin code:

```
1 fun main() {  
2     val intList = listOf(10, 20, 30, 40, 52)  
3     val squares = intList.map { it * it }  
4     println(squares)  
5 }
```

Below the code editor, the `Run` tab is active, showing the execution command and output:

```
C:\Users\alink\.jdk\openjdk-23.0.2\bin\java.exe "-javaagent:C:\Users\alink\IntelliJ ID  
[100, 400, 900, 1600, 2704]  
  
Process finished with exit code 0
```