ПРАКТИЧЕСКАЯ 4
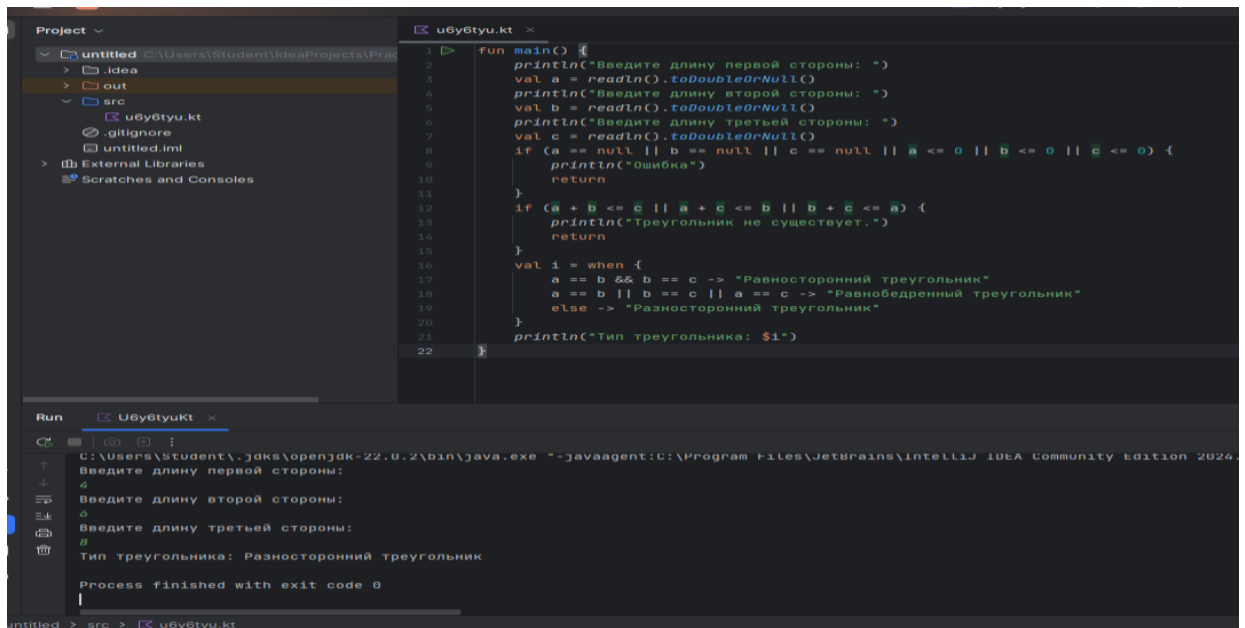
1.


```kotlin
fun main() {
    val dayNumber = 3
    val dayOfWeek = when(dayNumber) {
        1 -> "Понедельник"
        2 -> "Вторник"
        3 -> "Среда"
        4 -> "Четверг"
        5 -> "Пятница"
        6 -> "Суббота"
        7 -> "Воскресенье"
        else -> "Неверный номер дня"
    }
    println(dayOfWeek)
}
```

```
C:\Users\Student\.jdks\openjdk-22.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ I
Среда

Process finished with exit code 0
```

2.


```kotlin
fun main() {
    println("Введите длину первой стороны: ")
    val a = readln().toDoubleOrNull()
    println("Введите длину второй стороны: ")
    val b = readln().toDoubleOrNull()
    println("Введите длину третьей стороны: ")
    val c = readln().toDoubleOrNull()
    if (a == null || b == null || c == null || a <= 0 || b <= 0 || c <= 0) {
        println("Ошибка")
        return
    }
    if (a + b <= c || a + c <= b || b + c <= a) {
        println("Треугольник не существует.")
        return
    }
    val i = when {
        a == b && b == c -> "Равносторонний треугольник"
        a == b || b == c || a == c -> "Равнобедренный треугольник"
        else -> "Разносторонний треугольник"
    }
    println("Тип треугольника: $i")
}
```
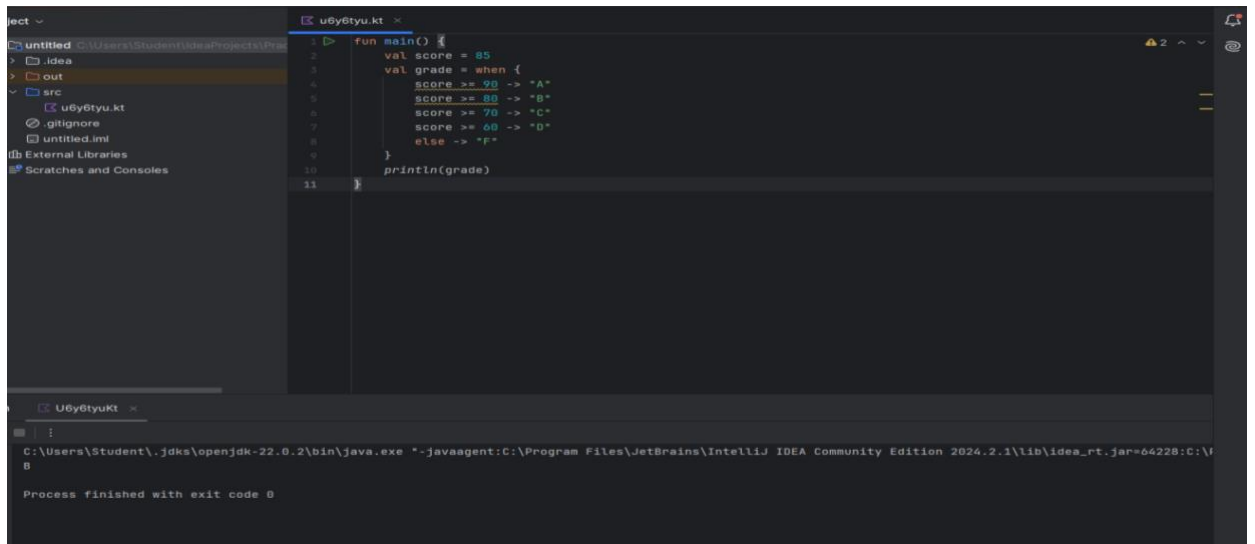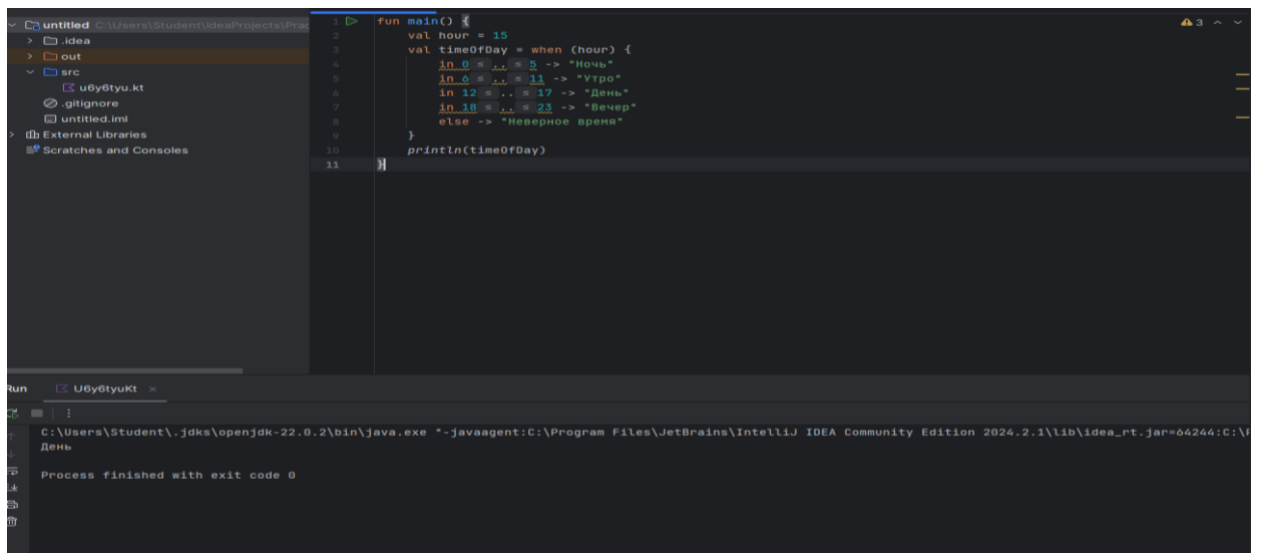
```
C:\Users\Student\.jdks\openjdk-22.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2024.
Введите длину первой стороны:
4
Введите длину второй стороны:
6
Введите длину третьей стороны:
8
Тип треугольника: Разносторонний треугольник

Process finished with exit code 0
```
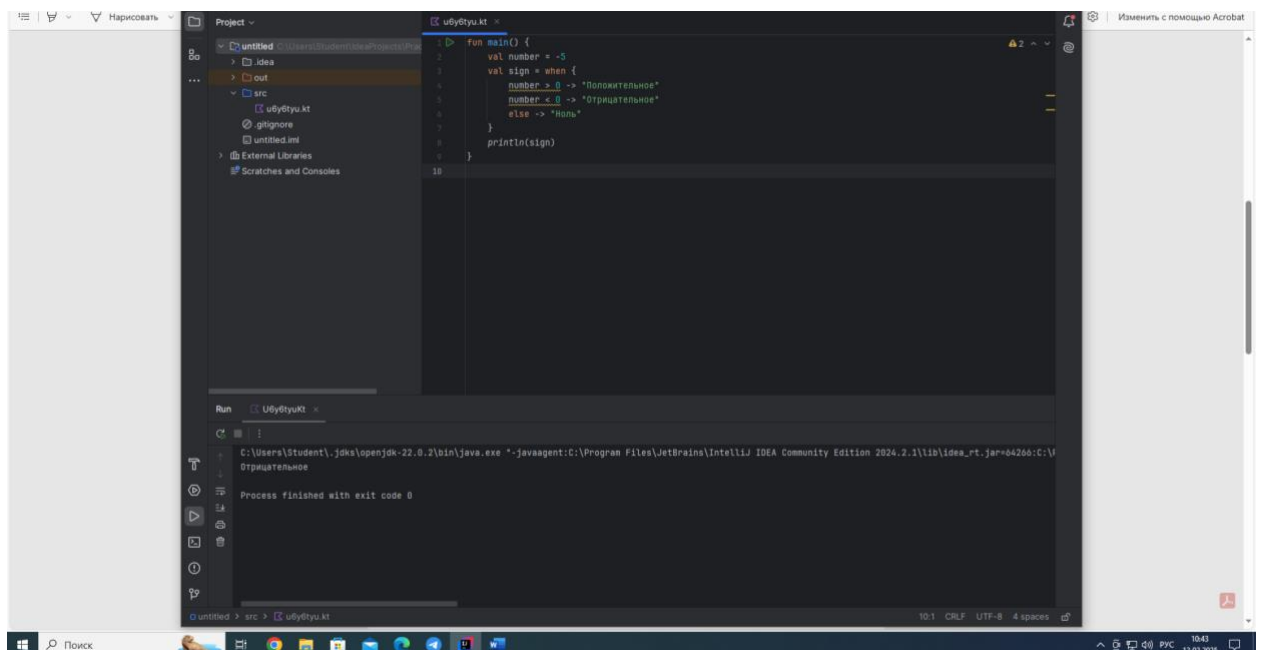
```
untitled > src > u6y6tyu.kt
```

3.

```kotlin
fun main() {
    val score = 85
    val grade = when {
        score >= 90 -> "A"
        score >= 80 -> "B"
        score >= 70 -> "C"
        score >= 60 -> "D"
        else -> "F"
    }
    println(grade)
}
```

```
C:\Users\Student\.jdks\openjdk-22.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2024.2.1\lib\idea_rt.jar=64228:C:\F
B

Process finished with exit code 0
```

4.


```kotlin
fun main() {
    val hour = 15
    val timeOfDay = when (hour) {
        in 0 .. 5 -> "Ночь"
        in 6 .. 11 -> "Утро"
        in 12 .. 17 -> "День"
        in 18 .. 23 -> "Вечер"
        else -> "Неверное время"
    }
    println(timeOfDay)
}
```

```
C:\Users\Student\.jdks\openjdk-22.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2024.2.1\lib\idea_rt.jar=64244:C:\F
День

Process finished with exit code 0
```

5.


```kotlin
fun main() {
    val number = -5
    val sign = when {
        number > 0 -> "Положительное"
        number < 0 -> "Отрицательное"
        else -> "Ноль"
    }
    println(sign)
}
```

```
C:\Users\Student\.jdks\openjdk-22.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2024.2.1\lib\idea_rt.jar=64266:C:\F
Отрицательное

Process finished with exit code 0
```

6.

```kotlin
fun main() {
    val secretNumber = 7
    val guessedNumber = 7
    when (guessedNumber) {
        secretNumber -> println("Вы угадали!")
        else -> println("Попробуйте снова!")
    }
}
```

```
C:\Users\Student\.jdks\openjdk-22.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2024.2.1\lib\idea_rt.jar=6
Вы угадали!

Process finished with exit code 0
```

7.

```kotlin
fun main() {
    val text = "Hello"
    val length = when {
        text.length == 0 -> "Пустая строка"
        text.length < 5 -> "Короткая строка"
        else -> "Длинная строка"
    }
    println(length)
}
```
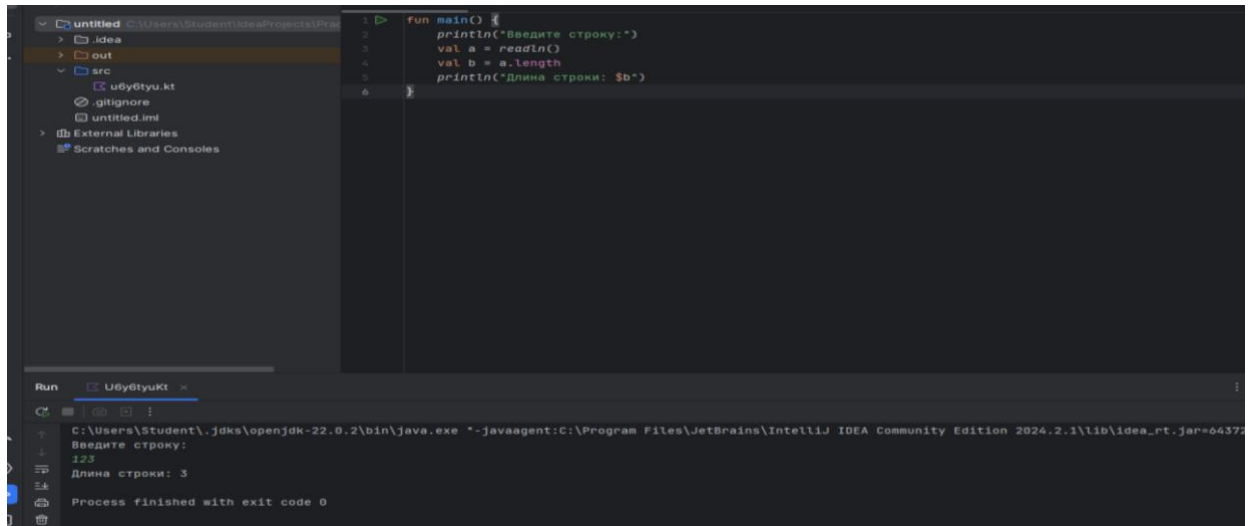
```
C:\Users\Student\.jdks\openjdk-22.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2024.2.1\lib\idea_rt.jar=643
Длинная строка

Process finished with exit code 0
```

8.

```kotlin
fun main() {
    val foodType = "Мясо"
    val cookingTime = when (foodType) {
        "Овощи" -> "15 минут"
        "Мясо" -> "40 минут"
        "Рыба" -> "25 минут"
        else -> "Неизвестно"
    }
    println(cookingTime)
}
```
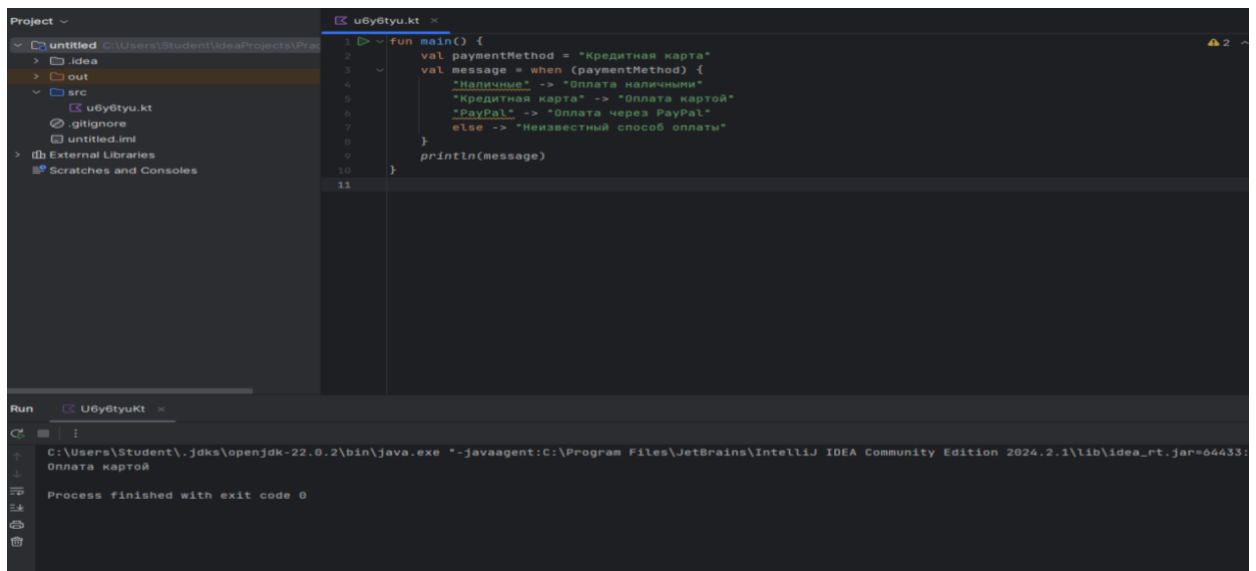
```
C:\Users\Student\.jdks\openjdk-22.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2024.2.1\lib\idea_rt.jar=64336:C:\
40 минут

Process finished with exit code 0
```

9.


```kotlin
fun main() {
    println("Введите строку:")
    val a = readln()
    val b = a.length
    println("Длина строки: $b")
}
```

```
C:\Users\Student\.jdks\openjdk-22.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2024.2.1\lib\idea_rt.jar=64372
Введите строку:
123
Длина строки: 3

Process finished with exit code 0
```
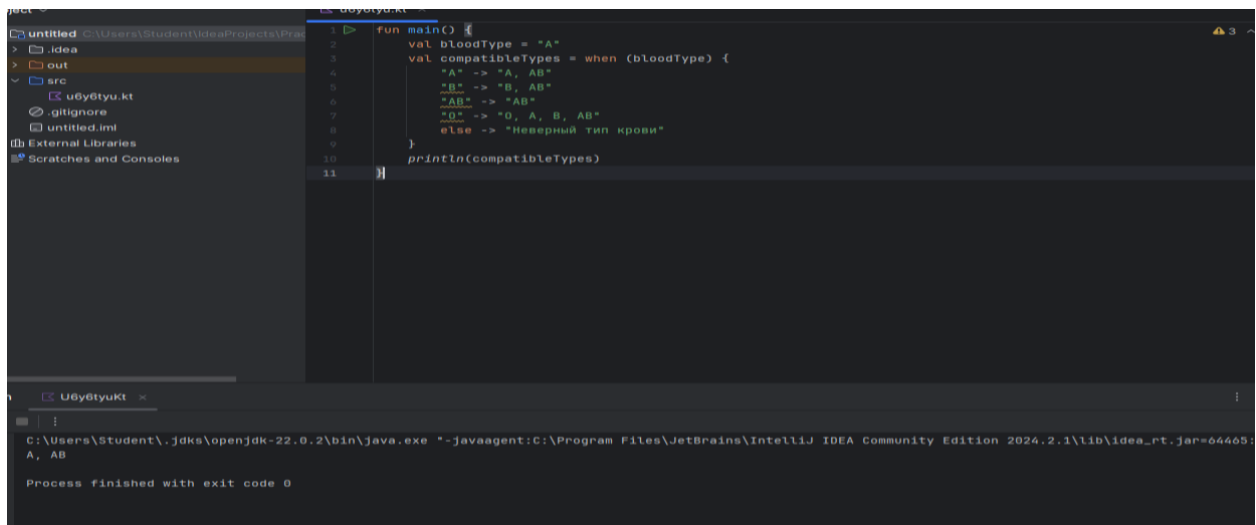
10.


```kotlin
fun main() {
    val paymentMethod = "Кредитная карта"
    val message = when (paymentMethod) {
        "Наличные" -> "Оплата наличными"
        "Кредитная карта" -> "Оплата картой"
        "PayPal" -> "Оплата через PayPal"
        else -> "Неизвестный способ оплаты"
    }
    println(message)
}
```

```
C:\Users\Student\.jdks\openjdk-22.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2024.2.1\lib\idea_rt.jar=64433:
Оплата картой

Process finished with exit code 0
```

11.


```kotlin
fun main() {
    val bloodType = "A"
    val compatibleTypes = when (bloodType) {
        "A" -> "A, AB"
        "B" -> "B, AB"
        "AB" -> "AB"
        "O" -> "O, A, B, AB"
        else -> "Неверный тип крови"
    }
    println(compatibleTypes)
}
```

```
C:\Users\Student\.jdks\openjdk-22.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2024.2.1\lib\idea_rt.jar=64465:
A, AB

Process finished with exit code 0
```

12.

```kotlin
fun main() {
    val country = "Япония"
    val nationality = when (country) {
        "США" -> "Американец"
        "Россия" -> "Русский"
        "Япония" -> "Японец"
        else -> "Неизвестная национальность"
    }
    println(nationality)
}
```

```
C:\Users\Student\.jdks\openjdk-22.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2024.2.1\lib\idea_rt.jar=64503:C:\P
Японец

Process finished with exit code 0
```
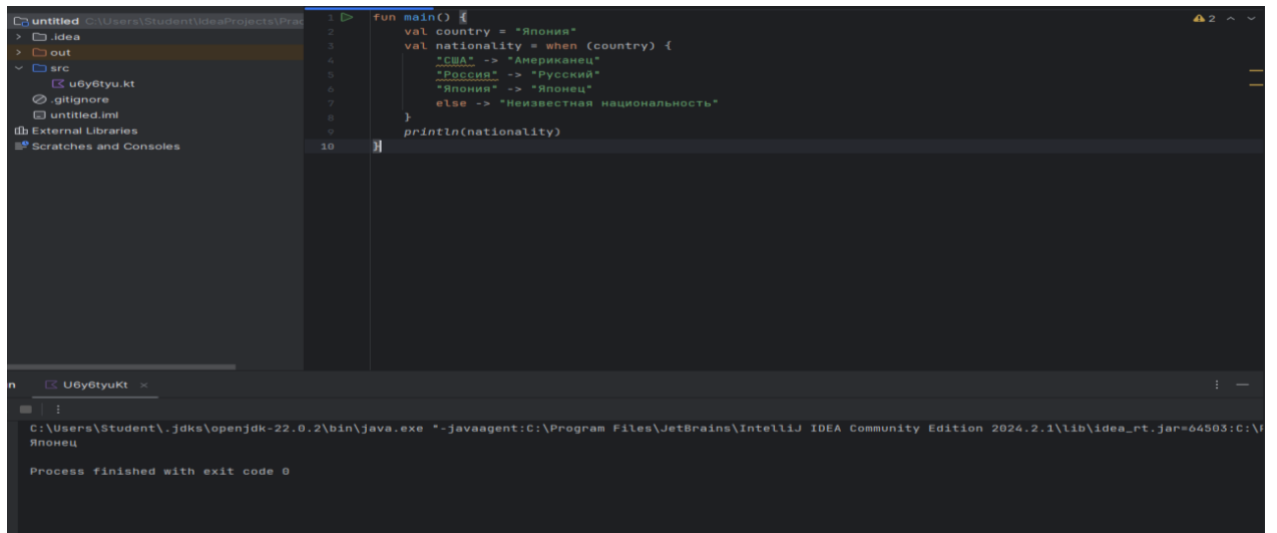
13.


```kotlin
fun main() {
    println("Введите код ошибки (100, 200, 300):")
    val a = readln().toIntOrNull()
    if (a == null) {
        println("Ошибка")
        return
    }
    val b = when (a) {
        100 -> "Ошибка сети"
        200 -> "Ошибка сервера"
        300 -> "Ошибка базы данных"
        else -> "Неизвестный код ошибки"
    }
    println(b)
}
```

```
C:\Users\Student\.jdks\openjdk-22.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2024.2.1\lib\idea_rt.jar=64594:C:
Введите код ошибки (100, 200, 300):
200
Ошибка сервера

Process finished with exit code 0
```