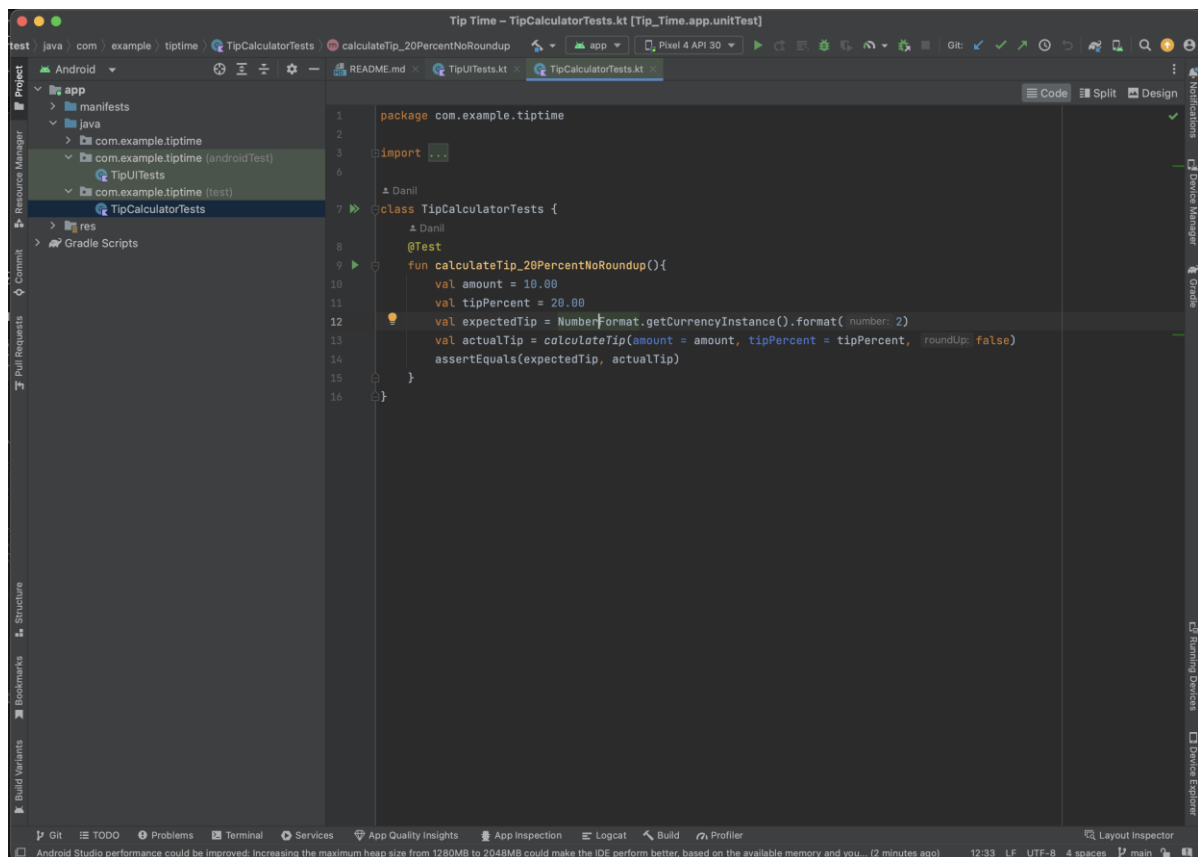


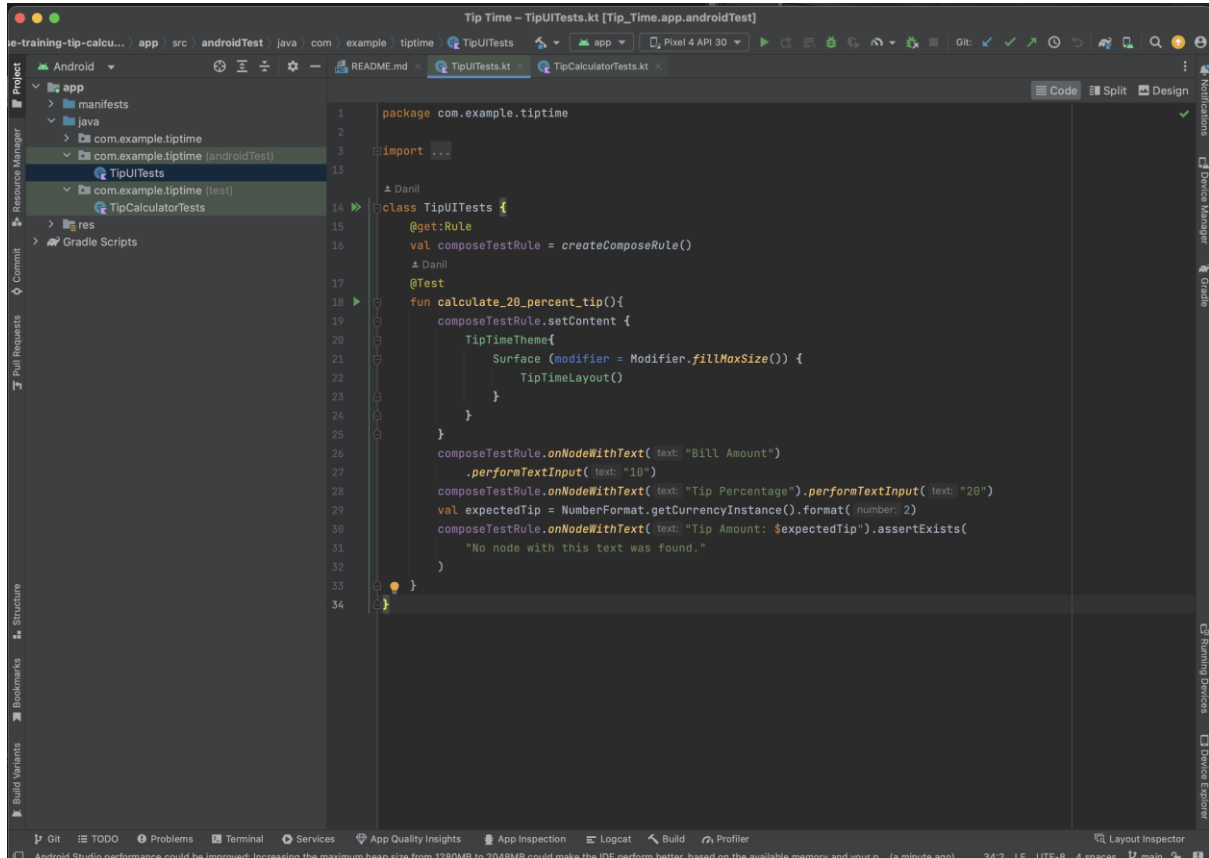
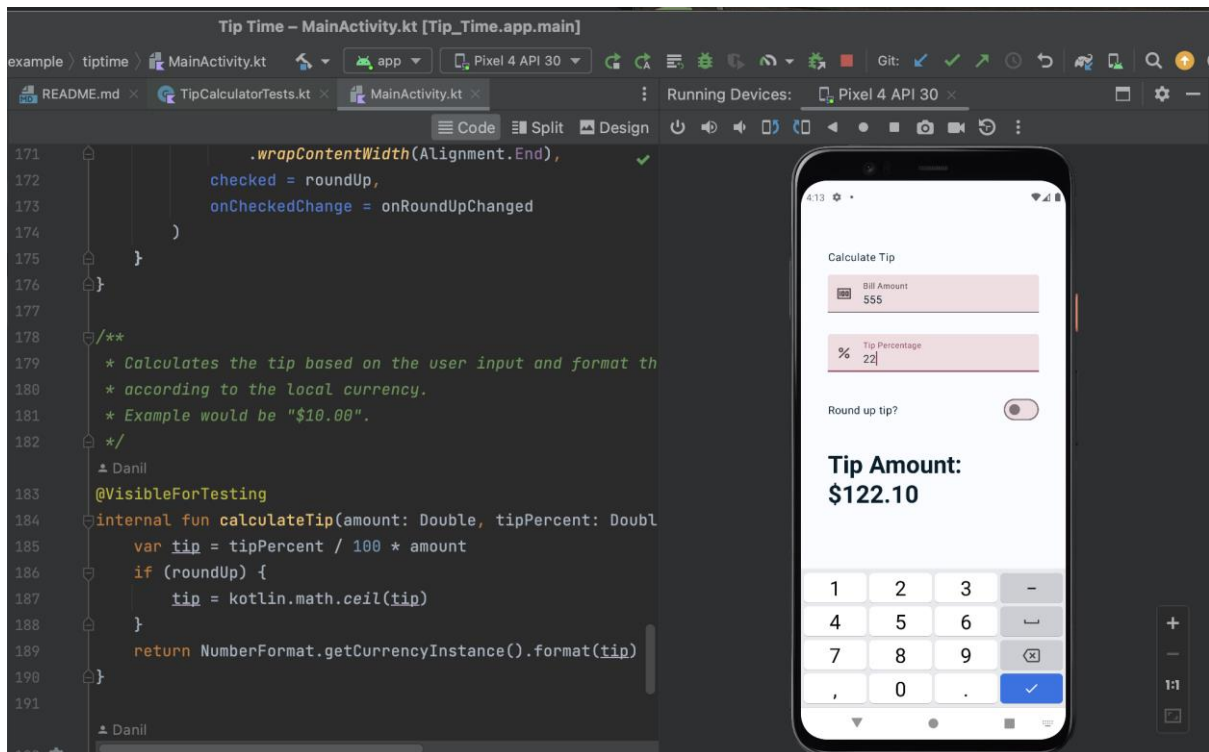
Корначенко Данил

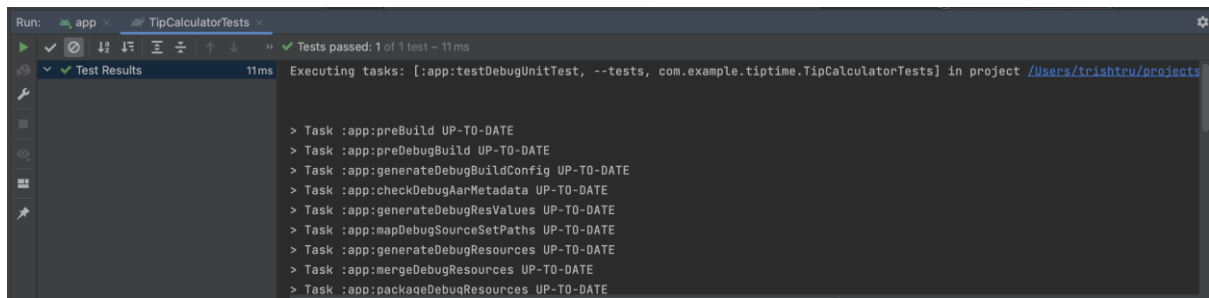
Группа 9ИС-390К

Практическая работа №3

Юнит-тесты

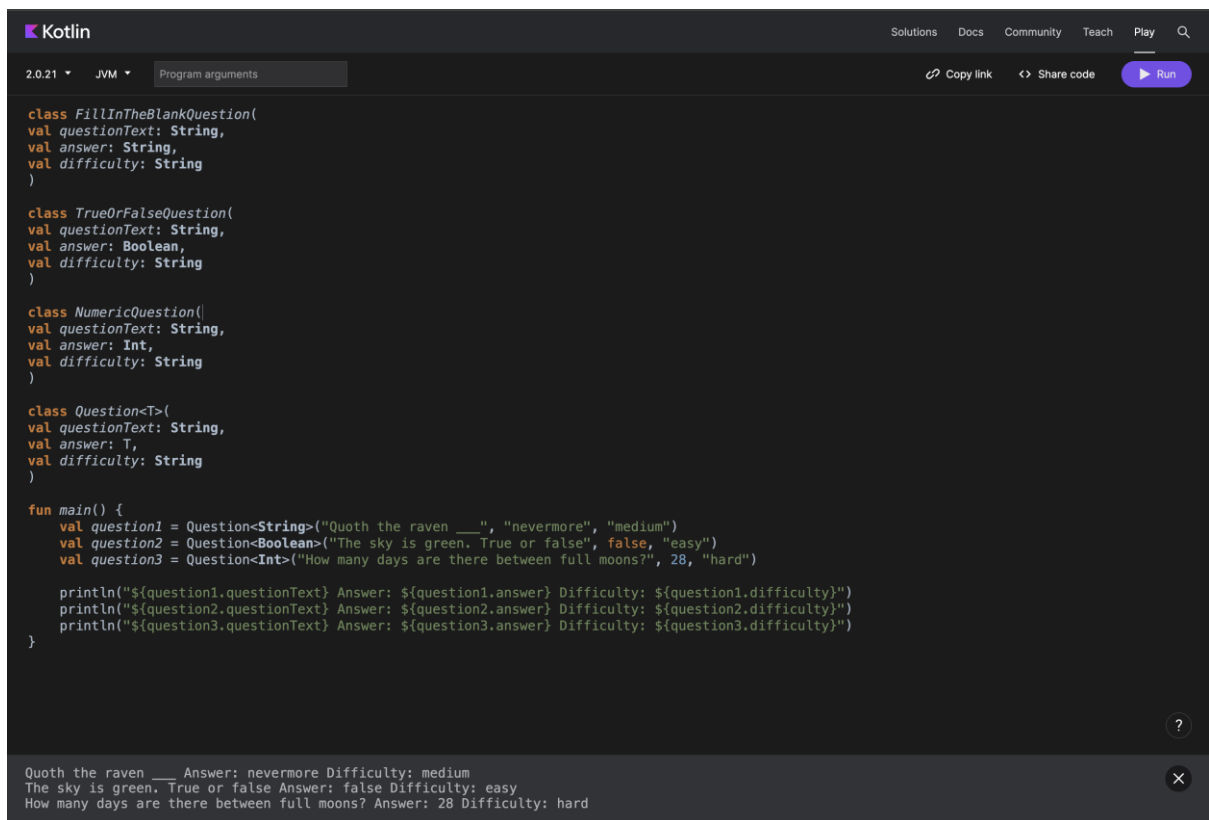






Практическая работа №15

Задание 1.



Задание 2.

Kotlin

SolutionsDocsCommunityTeachPlay

2.0.21JVMProgram argumentsCopy linkShare codeRun

```
enum class Difficulty {
    EASY, MEDIUM, HARD
}

class FillInTheBlankQuestion(
    val questionText: String,
    val answer: String,
    val difficulty: String
)

class TrueOrFalseQuestion(
    val questionText: String,
    val answer: Boolean,
    val difficulty: String
)

class NumericQuestion(
    val questionText: String,
    val answer: Int,
    val difficulty: String
)

class Question<T> (
    val questionText: String,
    val answer: T,
    val difficulty: Difficulty
)

fun main() {
    val question1 = Question<String>("Quoth the raven __", "nevermore", Difficulty.MEDIUM)
    val question2 = Question<Boolean>("The sky is green. True or false?", false, Difficulty.EASY)
    val question3 = Question<Int>("How many days are there between full moons?", 28, Difficulty.HARD)

    println("${question1.questionText} Answer: ${question1.answer} Difficulty: ${question1.difficulty}")
    println("${question2.questionText} Answer: ${question2.answer} Difficulty: ${question2.difficulty}")
    println("${question3.questionText} Answer: ${question3.answer} Difficulty: ${question3.difficulty}")
}
```

Quoth the raven __ Answer: nevermore Difficulty: MEDIUM
The sky is green. True or false Answer: false Difficulty: EASY
How many days are there between full moons? Answer: 28 Difficulty: HARD

Задание 3.

Kotlin

SolutionsDocsCommunityTeachPlay

2.0.21JVMProgram argumentsCopy linkShare codeRun

```
enum class Difficulty {
    EASY, MEDIUM, HARD
}

class FillInTheBlankQuestion(
    val questionText: String,
    val answer: String,
    val difficulty: String
)

class TrueOrFalseQuestion(
    val questionText: String,
    val answer: Boolean,
    val difficulty: String
)

class NumericQuestion(
    val questionText: String,
    val answer: Int,
    val difficulty: String
)

data class Question<T> (
    val questionText: String,
    val answer: T,
    val difficulty: Difficulty
)

fun main() {
    val question1 = Question<String>("Quoth the raven __", "nevermore", Difficulty.MEDIUM)
    val question2 = Question<Boolean>("The sky is green. True or false?", false, Difficulty.EASY)
    val question3 = Question<Int>("How many days are there between full moons?", 28, Difficulty.HARD)
    println(question1.toString())
}
```

Question(questionText=Quoth the raven __, answer=nevermore, difficulty=MEDIUM)

Задание 4.

Kotlin

SolutionsDocsCommunityTeachPlay

2.0.21JVMProgram argumentsCopy linkShare codeRun

```
object StudentProgress {
    var total: Int = 10
    var answered: Int = 3
}

fun main() {
    println("${StudentProgress.answered} of ${StudentProgress.total} answered.")
}
```

3 of 10 answered.

Задание 5.

Kotlin

SolutionsDocsCommunityTeachPlay

2.0.21JVMProgram argumentsCopy linkShare codeRun

```
enum class Difficulty {
    EASY, MEDIUM, HARD
}

class FillInTheBlankQuestion(
    val questionText: String,
    val answer: String,
    val difficulty: String
)

class TrueOrFalseQuestion(
    val questionText: String,
    val answer: Boolean,
    val difficulty: String
)

class NumericQuestion(
    val questionText: String,
    val answer: Int,
    val difficulty: String
)

data class Question<T>(
    val questionText: String,
    val answer: T,
    val difficulty: Difficulty
)

class Quiz {
    val question1 = Question<String>("Quoth the raven __", "nevermore", Difficulty.MEDIUM)
    val question2 = Question<Boolean>("The sky is green. True or false?", false, Difficulty.EASY)
    val question3 = Question<Int>("How many days are there between full moons?", 28, Difficulty.HARD)
    companion object StudentProgress {
        var total: Int = 10
        var answered: Int = 3
    }
}

fun main() {
    println("${Quiz.answered} of ${Quiz.total} answered.")
}
```

3 of 10 answered.

Задание 6.

```
Kotlin
Solutions Docs Community Teach Play Q
2.0.21 JVM Program arguments Copy link Share code Run

enum class Difficulty {
    EASY, MEDIUM, HARD
}

class FillInTheBlankQuestion(
    val questionText: String,
    val answer: String,
    val difficulty: String
)

class TrueOrFalseQuestion(
    val questionText: String,
    val answer: Boolean,
    val difficulty: String
)

class NumericQuestion(
    val questionText: String,
    val answer: Int,
    val difficulty: String
)

data class Question-T> {
    val questionText: String,
    val answer: T,
    val difficulty: Difficulty
}

class Quiz {
    val question1 = Question<String>("Quoth the raven __", "nevermore", Difficulty.MEDIUM)
    val question2 = Question<Boolean>("The sky is green. True or false", false, Difficulty.EASY)
    val question3 = Question<Int>("How many days are there between full moons?", 28, Difficulty.HARD)
    companion object StudentProgress {
        var total: Int = 10
        var answered: Int = 3
    }
}

val Quiz.StudentProgress.progressText: String
get() = "${answered} of ${total} answered"

fun Quiz.StudentProgress.printProgressBar() {
    repeat(Quiz.answered) { print("█") }
    repeat(Quiz.total - Quiz.answered) { print("░") }
    println()
    println(Quiz.progressText)
}

fun main() {
    Quiz.printProgressBar()
}

3 of 10 answered.
```

Задание 7.

```
Kotlin
Solutions Docs Community Teach Play Q
2.0.21 JVM Program arguments Copy link Share code Run

enum class Difficulty {
    EASY, MEDIUM, HARD
}

class FillInTheBlankQuestion(
    val questionText: String,
    val answer: String,
    val difficulty: String
)

class TrueOrFalseQuestion(
    val questionText: String,
    val answer: Boolean,
    val difficulty: String
)

class NumericQuestion(
    val questionText: String,
    val answer: Int,
    val difficulty: String
)

data class Question-T> {
    val questionText: String,
    val answer: T,
    val difficulty: Difficulty
}

interface ProgressPrintable {
    val progressText: String
    fun printProgressBar()
}

class Quiz : ProgressPrintable {
    override val progressText: String
    get() = "${answered} of ${total} answered"
    override fun printProgressBar() {
        repeat(Quiz.answered) { print("█") }
        repeat(Quiz.total - Quiz.answered) { print("░") }
        println()
        println(progressText)
    }
    val question1 = Question<String>("Quoth the raven __", "nevermore", Difficulty.MEDIUM)
    val question2 = Question<Boolean>("The sky is green. True or false", false, Difficulty.EASY)
    val question3 = Question<Int>("How many days are there between full moons?", 28, Difficulty.HARD)
    companion object StudentProgress {
        var total: Int = 10
        var answered: Int = 3
    }
}

fun main() {
    Quiz().printProgressBar()
}

3 of 10 answered.
```

Задание 8.

```
Kotlin
2021 • JVM • Program arguments
Copy link Share code Run

enum class Difficulty {
    EASY, MEDIUM, HARD
}

class FillInTheBlankQuestion(
    val questionText: String,
    val answer: String,
    val difficulty: String
)

class TrueOrFalseQuestion(
    val questionText: String,
    val answer: Boolean,
    val difficulty: String
)

class NumericQuestion(
    val questionText: String,
    val answer: Int,
    val difficulty: String
)

data class QuestionTvl(
    val questionText: String,
    val answer: T,
    val difficulty: Difficulty
)

interface ProgressPrintable {
    val progressText: String
    fun printProgressBar()
}

class Quiz : ProgressPrintable {
    override val progressText: String
        get() = "${answered} of ${total} answered"
    override fun printProgressBar() {
        repeat(Quiz.answered) { print("█") }
        repeat(Quiz.total - Quiz.answered) { print("░") }
        println()
        println(progressText)
    }
    val question1 = Question-String-("Quoth the raven ____", "nevermore", Difficulty.MEDIUM)
    val question2 = Question-Boolean-("The sky is green. True or false", false, Difficulty.EASY)
    val question3 = Question-Int-("How many days are there between full moons?", 28, Difficulty.HARD)
    companion object StudentProgress {
        var total: Int = 10
        var answered: Int = 3
    }
    fun printQuiz() {
        question1.let {
            println(it.questionText)
            println(it.answer)
            println(it.difficulty)
        }
        println()
        question2.let {
            println(it.questionText)
            println(it.answer)
            println(it.difficulty)
        }
        println()
        question3.let {
            println(it.questionText)
            println(it.answer)
            println(it.difficulty)
        }
        println()
    }
}

fun main() {
    val quiz = Quiz()
    quiz.printQuiz()
}
```

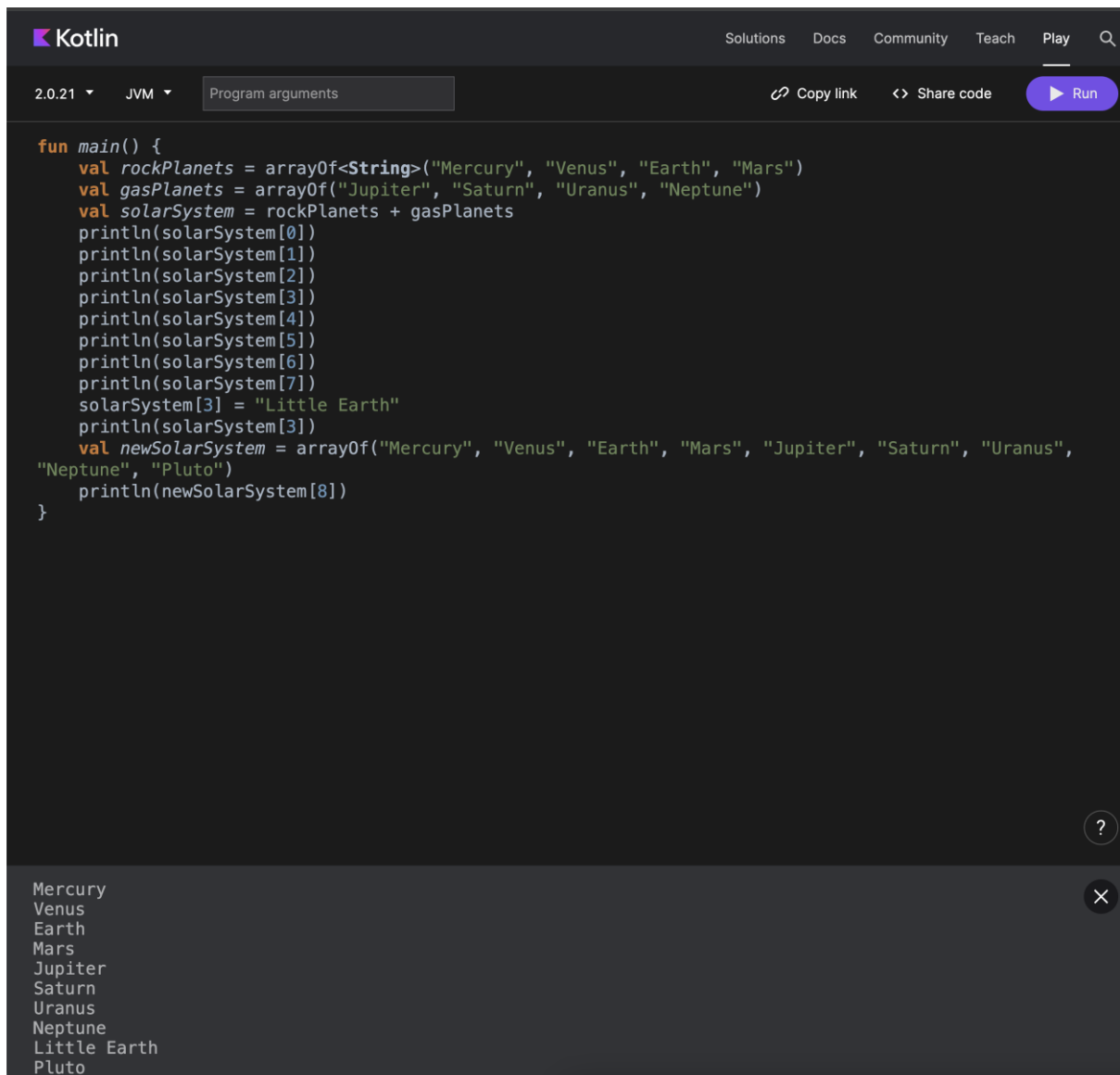
Quoth the raven ____
nevermore
MEDIUM

The sky is green. True or false
false
EASY

How many days are there between full moons?

Практическая работа №16

Задание 1-2.



The screenshot shows the Kotlin Playground interface. At the top, there's a header with the Kotlin logo and navigation links: Solutions, Docs, Community, Teach, and Play. Below the header, there's a toolbar with the Kotlin version (2.0.21), the JVM target, a text input for program arguments, and buttons for Copy link, Share code, and Run. The main area contains a Kotlin program that defines an array of planet names, prints each element, and then updates one element. The output area at the bottom shows the results of the program execution.

```
fun main() {  
    val rockPlanets = arrayOf<String>("Mercury", "Venus", "Earth", "Mars")  
    val gasPlanets = arrayOf("Jupiter", "Saturn", "Uranus", "Neptune")  
    val solarSystem = rockPlanets + gasPlanets  
    println(solarSystem[0])  
    println(solarSystem[1])  
    println(solarSystem[2])  
    println(solarSystem[3])  
    println(solarSystem[4])  
    println(solarSystem[5])  
    println(solarSystem[6])  
    println(solarSystem[7])  
    solarSystem[3] = "Little Earth"  
    println(solarSystem[3])  
    val newSolarSystem = arrayOf("Mercury", "Venus", "Earth", "Mars", "Jupiter", "Saturn", "Uranus",  
    "Neptune", "Pluto")  
    println(newSolarSystem[8])  
}
```

Mercury
Venus
Earth
Mars
Jupiter
Saturn
Uranus
Neptune
Little Earth
Pluto

Задание 3.

Kotlin

SolutionsDocsCommunityTeachPlay

2.0.21JVMProgram argumentsCopy linkShare codeRun

```
fun main() {  
    val solarSystem = listOf("Mercury", "Venus", "Earth", "Mars", "Jupiter", "Saturn", "Uranus", "Neptune")  
    println(solarSystem.size)  
    println(solarSystem[2])  
    println(solarSystem.get(3))  
    println(solarSystem.indexOf("Earth"))  
    println(solarSystem.indexOf("Pluto"))  
    for (planet in solarSystem) {  
        println(planet)  
    }  
}
```

8
Earth
Mars
2
-1
Mercury
Venus
Earth
Mars
Jupiter

Kotlin

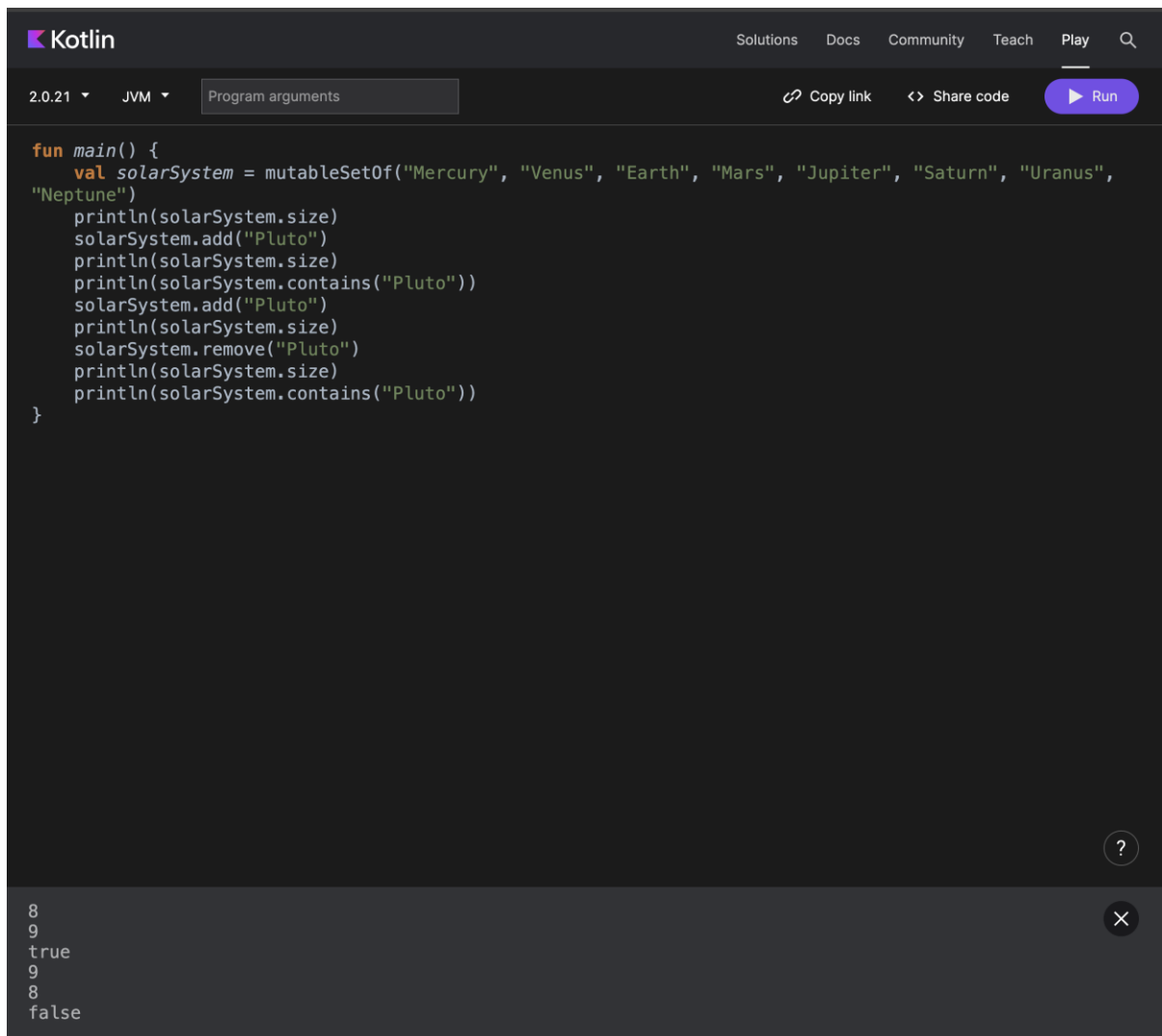
SolutionsDocsCommunityTeachPlay

2.0.21JVMProgram argumentsCopy linkShare codeRun

```
fun main() {  
    val solarSystem = mutableListOf("Mercury", "Venus", "Earth", "Mars", "Jupiter", "Saturn", "Uranus",  
    "Neptune")  
    solarSystem.add("Pluto")  
    solarSystem.add(3, "Theia")  
    solarSystem[3] = "Future Moon"  
    println(solarSystem[3])  
    println(solarSystem[9])  
    solarSystem.removeAt(9)  
    solarSystem.remove("Future Moon")  
    println(solarSystem.contains("Pluto"))  
    println("Future Moon" in solarSystem)  
}
```

Future Moon
Pluto
false
false

Задание 4.



The screenshot shows the Kotlin Playground interface. At the top, there's a header with the Kotlin logo and navigation links: Solutions, Docs, Community, Teach, Play, and a search icon. Below the header, there's a toolbar with version (2.0.21), JVM, a text input field containing "Program arguments", and buttons for "Copy link", "Share code", and "Run". The main area contains a Kotlin code snippet. The output area at the bottom shows the results of the program execution.

```
fun main() {  
    val solarSystem = mutableSetOf("Mercury", "Venus", "Earth", "Mars", "Jupiter", "Saturn", "Uranus",  
    "Neptune")  
    println(solarSystem.size)  
    solarSystem.add("Pluto")  
    println(solarSystem.size)  
    println(solarSystem.contains("Pluto"))  
    solarSystem.add("Pluto")  
    println(solarSystem.size)  
    solarSystem.remove("Pluto")  
    println(solarSystem.size)  
    println(solarSystem.contains("Pluto"))  
}
```

8
9
true
9
8
false

Задание 5.

The screenshot shows the Kotlin Playground web interface. At the top, there's a navigation bar with 'Kotlin' logo and links for 'Solutions', 'Docs', 'Community', 'Teach', and 'Play'. Below this, a toolbar includes version '2.0.21', 'JVM' target, a text input 'Program arguments', and buttons for 'Copy link', 'Share code', and 'Run'. The main editor contains the following Kotlin code:

```
fun main() {  
    val solarSystem = mutableMapOf(  
        "Mercury" to 0,  
        "Venus" to 0,  
        "Earth" to 1,  
        "Mars" to 2,  
        "Jupiter" to 79,  
        "Saturn" to 82,  
        "Uranus" to 27,  
        "Neptune" to 14  
    )  
    println(solarSystem.size)  
    solarSystem["Pluto"] = 5  
    println(solarSystem.size)  
    println(solarSystem.get("Theia"))  
    solarSystem.remove("Pluto")  
    println(solarSystem.size)  
    solarSystem["Jupiter"] = 78  
    println(solarSystem["Jupiter"])  
}
```

At the bottom, the output console shows the results of the program execution:

```
8  
9  
null  
8  
78
```

Практическая работа №17

Задание 1-2.

Kotlin

SolutionsDocsCommunityTeachPlayQ

2.0.21JVMProgram argumentsCopy linkShare codeRun

```
class Cookie(  
    val name: String,  
    val softBaked: Boolean,  
    val hasFilling: Boolean,  
    val price: Double  
)  
  
val cookies = listOf(  
    Cookie(  
        name = "Chocolate Chip",  
        softBaked = false,  
        hasFilling = false,  
        price = 1.69  
    ),  
    Cookie(  
        name = "Banana Walnut",  
        softBaked = true,  
        hasFilling = false,  
        price = 1.49  
    ),  
    Cookie(  
        name = "Vanilla Creme",  
        softBaked = false,  
        hasFilling = true,  
        price = 1.59  
    ),  
    Cookie(  
        name = "Chocolate Peanut Butter",  
        softBaked = false,  
        hasFilling = true,  
        price = 1.49  
    ),  
    Cookie(  
        name = "Snickerdoodle",  
        softBaked = true,  
        hasFilling = false,  
        price = 1.39  
    ),  
    Cookie(  
        name = "Blueberry Tart",  
        softBaked = true,  
        hasFilling = true,  
        price = 1.79  
    ),  
    Cookie(  
        name = "Sugar and Sprinkles",  
        softBaked = false,  
        hasFilling = false,  
        price = 1.39  
    )  
)  
  
fun main() {  
    cookies.forEach {  
        println("Menu item: ${it.name}")  
    }  
}
```

Menu item: Chocolate Chip
Menu item: Banana Walnut
Menu item: Vanilla Creme
Menu item: Chocolate Peanut Butter
Menu item: Snickerdoodle
Menu item: Blueberry Tart
Menu item: Sugar and Sprinkles

Задание 3.

Kotlin

SolutionsDocsCommunityTeachPlay

2.0.21JVMProgram argumentsCopy linkShare codeRun

```
class Cookie(  
    val name: String,  
    val softBaked: Boolean,  
    val hasFilling: Boolean,  
    val price: Double  
)  
  
val cookies = listOf(  
    Cookie(  
        name = "Chocolate Chip",  
        softBaked = false,  
        hasFilling = false,  
        price = 1.69  
    ),  
    Cookie(  
        name = "Banana Walnut",  
        softBaked = true,  
        hasFilling = false,  
        price = 1.49  
    ),  
    Cookie(  
        name = "Vanilla Creme",  
        softBaked = false,  
        hasFilling = true,  
        price = 1.59  
    ),  
    Cookie(  
        name = "Chocolate Peanut Butter",  
        softBaked = false,  
        hasFilling = true,  
        price = 1.49  
    ),  
    Cookie(  
        name = "Snickerdoodle",  
        softBaked = true,  
        hasFilling = false,  
        price = 1.39  
    ),  
    Cookie(  
        name = "Blueberry Tart",  
        softBaked = true,  
        hasFilling = true,  
        price = 1.79  
    ),  
    Cookie(  
        name = "Sugar and Sprinkles",  
        softBaked = false,  
        hasFilling = false,  
        price = 1.39  
    )  
)  
  
fun main() {  
    val fullMenu = cookies.map {"${it.name} - ${it.price}"}  
    println("Full menu:")  
    fullMenu.forEach {println(it)}  
}
```

Full menu:
Chocolate Chip - \$1.69
Banana Walnut - \$1.49
Vanilla Creme - \$1.59
Chocolate Peanut Butter - \$1.49
Snickerdoodle - \$1.39
Blueberry Tart - \$1.79
Sugar and Sprinkles - \$1.39

Задание 4.

Kotlin

SolutionsDocsCommunityTeachPlay

2.0.21JVMProgram argumentsCopy linkShare codeRun

```
class Cookie(  
    val name: String,  
    val softBaked: Boolean,  
    val hasFilling: Boolean,  
    val price: Double  
)  
val cookies = listOf(  
    Cookie(  
        name = "Chocolate Chip",  
        softBaked = false,  
        hasFilling = false,  
        price = 1.69  
    ),  
    Cookie(  
        name = "Banana Walnut",  
        softBaked = true,  
        hasFilling = false,  
        price = 1.49  
    ),  
    Cookie(  
        name = "Vanilla Creme",  
        softBaked = false,  
        hasFilling = true,  
        price = 1.59  
    ),  
    Cookie(  
        name = "Chocolate Peanut Butter",  
        softBaked = false,  
        hasFilling = true,  
        price = 1.49  
    ),  
    Cookie(  
        name = "Snickerdoodle",  
        softBaked = true,  
        hasFilling = false,  
        price = 1.39  
    ),  
    Cookie(  
        name = "Blueberry Tart",  
        softBaked = true,  
        hasFilling = true,  
        price = 1.79  
    ),  
    Cookie(  
        name = "Sugar and Sprinkles",  
        softBaked = false,  
        hasFilling = false,  
        price = 1.39  
    )  
)  
fun main() {  
    val softBakedMenu = cookies.filter {  
        it.softBaked  
    }  
    println("Soft cookies:")  
    softBakedMenu.forEach {  
        println("${it.name} - ${it.price}")  
    }  
}
```

Full menu:
Chocolate Chip - \$1.69
Banana Walnut - \$1.49
Vanilla Creme - \$1.59
Chocolate Peanut Butter - \$1.49
Snickerdoodle - \$1.39
Blueberry Tart - \$1.79
Sugar and Sprinkles - \$1.39

Задание 5,6,7.

Kotlin

2.0.21 JVM Program arguments

```

class Cookie(
    val name: String,
    val softBaked: Boolean,
    val hasFilling: Boolean,
    val price: Double
)
val cookies = listOf(
    Cookie(
        name = "Chocolate Chip",
        softBaked = false,
        hasFilling = false,
        price = 1.69
    ),
    Cookie(
        name = "Banana Walnut",
        softBaked = true,
        hasFilling = false,
        price = 1.49
    ),
    Cookie(
        name = "Vanilla Creme",
        softBaked = false,
        hasFilling = true,
        price = 1.59
    ),
    Cookie(
        name = "Chocolate Peanut Butter",
        softBaked = false,
        hasFilling = true,
        price = 1.49
    ),
    Cookie(
        name = "Snickerdoodle",
        softBaked = true,
        hasFilling = false,
        price = 1.39
    ),
    Cookie(
        name = "Blueberry Tart",
        softBaked = true,
        hasFilling = true,
        price = 1.79
    ),
    Cookie(
        name = "Sugar and Sprinkles",
        softBaked = false,
        hasFilling = false,
        price = 1.39
    )
)
fun main() {
    val groupedMenu = cookies.groupBy {
        it.softBaked
    }
    val softBakedMenu = groupedMenu[true]?: listOf()
    val crunchyMenu = groupedMenu[false]?: listOf()

    println("Soft cookies:")
    softBakedMenu.forEach {
        println("${it.name} - ${it.price}")
    }

    println("Crunchy cookies:")
    crunchyMenu.forEach {
        println("${it.name} - ${it.price}")
    }
}

```

```

Full menu:
Chocolate Chip - $1.69
Banana Walnut - $1.49
Vanilla Creme - $1.59
Chocolate Peanut Butter - $1.49
Snickerdoodle - $1.39
Blueberry Tart - $1.79
Sugar and Sprinkles - $1.39

```

Kotlin

2.0.21 JVM Program arguments

```

class Cookie(
    val name: String,
    val softBaked: Boolean,
    val hasFilling: Boolean,
    val price: Double
)
val cookies = listOf(
    Cookie(
        name = "Chocolate Chip",
        softBaked = false,
        hasFilling = false,
        price = 1.69
    ),
    Cookie(
        name = "Banana Walnut",
        softBaked = true,
        hasFilling = false,
        price = 1.49
    ),
    Cookie(
        name = "Vanilla Creme",
        softBaked = false,
        hasFilling = true,
        price = 1.59
    ),
    Cookie(
        name = "Chocolate Peanut Butter",
        softBaked = false,
        hasFilling = true,
        price = 1.49
    ),
    Cookie(
        name = "Snickerdoodle",
        softBaked = true,
        hasFilling = false,
        price = 1.39
    ),
    Cookie(
        name = "Blueberry Tart",
        softBaked = true,
        hasFilling = true,
        price = 1.79
    ),
    Cookie(
        name = "Sugar and Sprinkles",
        softBaked = false,
        hasFilling = false,
        price = 1.39
    )
)
fun main() {
    val totalPrice = cookies.fold(0.0) { total, cookie ->
        total + cookie.price
    }
    println("Total price: $totalPrice")
}

```

```

Full menu:
Chocolate Chip - $1.69
Banana Walnut - $1.49
Vanilla Creme - $1.59
Chocolate Peanut Butter - $1.49
Snickerdoodle - $1.39
Blueberry Tart - $1.79
Sugar and Sprinkles - $1.39

```

Kotlin

2.0.21 JVM Program arguments

```

class Cookie(
    val name: String,
    val softBaked: Boolean,
    val hasFilling: Boolean,
    val price: Double
)
val cookies = listOf(
    Cookie(
        name = "Chocolate Chip",
        softBaked = false,
        hasFilling = false,
        price = 1.69
    ),
    Cookie(
        name = "Banana Walnut",
        softBaked = true,
        hasFilling = false,
        price = 1.49
    ),
    Cookie(
        name = "Vanilla Creme",
        softBaked = false,
        hasFilling = true,
        price = 1.59
    ),
    Cookie(
        name = "Chocolate Peanut Butter",
        softBaked = false,
        hasFilling = true,
        price = 1.49
    ),
    Cookie(
        name = "Snickerdoodle",
        softBaked = true,
        hasFilling = false,
        price = 1.39
    ),
    Cookie(
        name = "Blueberry Tart",
        softBaked = true,
        hasFilling = true,
        price = 1.79
    ),
    Cookie(
        name = "Sugar and Sprinkles",
        softBaked = false,
        hasFilling = false,
        price = 1.39
    )
)
fun main() {
    val alphabeticalMenu = cookies.sortedBy {
        it.name
    }
    println("Alphabetical menu:")
    alphabeticalMenu.forEach {
        println(it.name)
    }
}

```

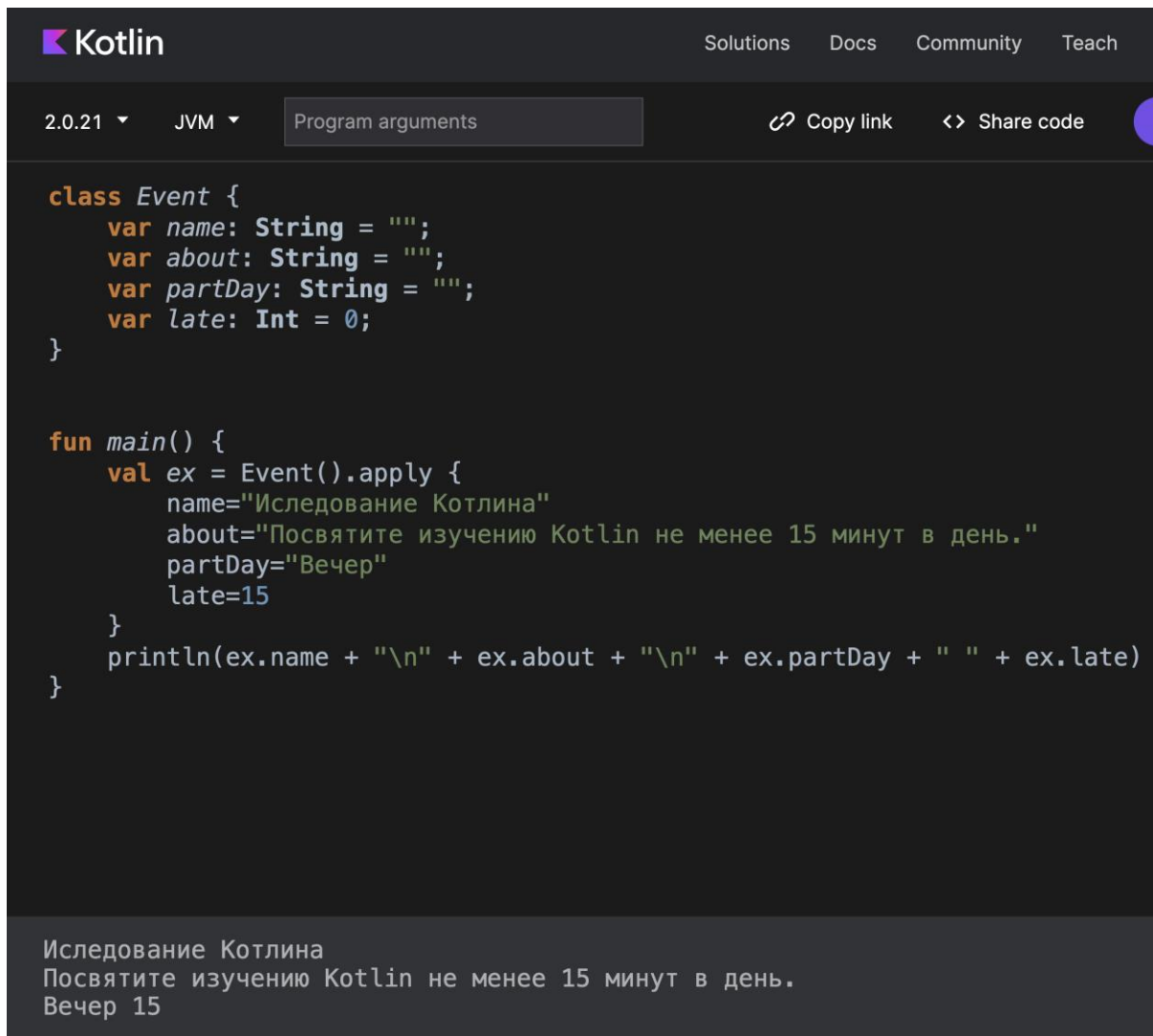
```

Full menu:
Chocolate Chip - $1.69
Banana Walnut - $1.49
Vanilla Creme - $1.59
Chocolate Peanut Butter - $1.49
Snickerdoodle - $1.39
Blueberry Tart - $1.79
Sugar and Sprinkles - $1.39

```

Практическая работа №18

Задание 1.



The screenshot shows the Kotlin Playground interface. At the top, there's a header with the Kotlin logo and navigation links: Solutions, Docs, Community, and Teach. Below the header, there's a toolbar with version (2.0.21), JVM, and a text input field containing "Program arguments". To the right of the input field are buttons for "Copy link" and "Share code". The main area displays Kotlin code for an Event class and a main function. The code defines an Event class with properties name, about, partDay, and late. The main function creates an Event object with specific values and prints them out. At the bottom, the output of the program is shown.

```
class Event {  
    var name: String = "";  
    var about: String = "";  
    var partDay: String = "";  
    var late: Int = 0;  
}  
  
fun main() {  
    val ex = Event().apply {  
        name="Исследование Котлина"  
        about="Посвятите изучению Kotlin не менее 15 минут в день."  
        partDay="Вечер"  
        late=15  
    }  
    println(ex.name + "\n" + ex.about + "\n" + ex.partDay + " " + ex.late)  
}
```

Исследование Котлина
Посвятите изучению Kotlin не менее 15 минут в день.
Вечер 15

Задание 2.

Kotlin

SolutionsDocsCommunityTeachP

2.0.21 ▾JVM ▾Program arguments

Copy linkShare code

```
enum class Daypart {  
    MORNING,  
    AFTERNOON,  
    EVENING  
}  
  
class Event {  
    var name: String = "";  
    var about: String = "";  
    var partDay: Daypart = Daypart.MORNING  
    var late: Int = 0;  
}  
  
fun main() {  
    val ex = Event().apply {  
        name="Исследование Котлина"  
        about="Посвятите изучению Kotlin не менее 15 минут в день."  
        partDay= Daypart.EVENING  
        late=15  
    }  
    println(ex.name + "\n" + ex.about + "\n" + ex.partDay + " " + ex.late)  
}
```

Исследование Котлина
Посвятите изучению Kotlin не менее 15 минут в день.
EVENING 15

Задание 3.

Kotlin

Solutions Docs Community Teach Pla

2.0.21 JVM Program arguments

Copy link Share code

```
enum class Daypart {
    MORNING,
    AFTERNOON,
    EVENING
}

class Event(
    var name: String = "",
    var about: String = "",
    var partDay: Daypart = Daypart.MORNING,
    var late: Int = 0
)

fun main() {
    val events: MutableList<Event> = mutableListOf()

    events.add(Event(name = "Wake up", about = "Time to get up", partDay = Daypart.MORNING, late = 0))
    events.add(Event(name = "Eat breakfast", about = "Time for breakfast", partDay = Daypart.MORNING, late = 15))
    events.add(Event(name = "Learn about Kotlin", about = "Study Kotlin programming", partDay = Daypart.AFTERNOON, late = 30))
    events.add(Event(name = "Practice Compose", about = "Practice Jetpack Compose", partDay = Daypart.AFTERNOON, late = 60))
    events.add(Event(name = "Watch latest DevBytes video", about = "Watch the latest video on DevBytes", partDay = Daypart.AFTERNOON, late = 10))
    events.add(Event(name = "Check out latest Android Jetpack library", about = "Explore the new Jetpack library", partDay = Daypart.EVENING, late = 45))

    val eventCount = events.size
    println("Количество запланированных событий: $eventCount")

    for (event in events) {
        println("${event.name} - ${event.about} (${event.partDay}, ${event.late} минут)")
    }
}
```

Количество запланированных событий: 6
Wake up - Time to get up (MORNING, 0 минут)
Eat breakfast - Time for breakfast (MORNING, 15 минут)
Learn about Kotlin - Study Kotlin programming (AFTERNOON, 30 минут)
Practice Compose - Practice Jetpack Compose (AFTERNOON, 60 минут)
Watch latest DevBytes video - Watch the latest video on DevBytes (AFTERNOON, 10 минут)
Check out latest Android Jetpack library - Explore the new Jetpack library (EVENING, 45 минут)

Задание 4.

Kotlin

SolutionsDocsCommunityTeachPlay

2.0.21JVMProgram argumentsCopy linkShare code

```
enum class Daypart {
    MORNING,
    AFTERNOON,
    EVENING
}

class Event(
    var name: String = "",
    var about: String = "",
    var partDay: Daypart = Daypart.MORNING,
    var late: Int = 0
)

fun main() {
    val events: MutableList<Event> = mutableListOf()

    events.add(Event(name = "Wake up", about = "Time to get up", partDay = Daypart.MORNING, late = 0))
    events.add(Event(name = "Eat breakfast", about = "Time for breakfast", partDay = Daypart.MORNING, late = 15))
    events.add(Event(name = "Learn about Kotlin", about = "Study Kotlin programming", partDay = Daypart.AFTERNOON, late = 30))
    events.add(Event(name = "Practice Compose", about = "Practice Jetpack Compose", partDay = Daypart.AFTERNOON, late = 60))
    events.add(Event(name = "Watch latest DevBytes video", about = "Watch the latest video on DevBytes", partDay = Daypart.AFTERNOON, late = 10))
    events.add(Event(name = "Check out latest Android Jetpack library", about = "Explore the new Jetpack library", partDay = Daypart.EVENING, late = 45))

    val eventCount = events.size
    println("Количество запланированных событий: $eventCount")

    for (event in events) {
        if (event.late < 60)
            println("Короткое событие:\n${event.name} - ${event.about} (${event.partDay}, ${event.late} минут)")
    }
}
```

Количество запланированных событий: 6
Короткое событие:
Wake up - Time to get up (MORNING, 0 минут)
Короткое событие:
Eat breakfast - Time for breakfast (MORNING, 15 минут)
Короткое событие:
Learn about Kotlin - Study Kotlin programming (AFTERNOON, 30 минут)
Короткое событие:
Watch latest DevBytes video - Watch the latest video on DevBytes (AFTERNOON, 10 минут)
Короткое событие:

Задание 5.

Kotlin

SolutionsDocsCommunityTeachPlay

2.0.21JVMProgram argumentsCopy linkShare code

```
enum class Daypart {
    MORNING,
    AFTERNOON,
    EVENING
}

class Event(
    var name: String = "",
    var about: String = "",
    var partDay: Daypart = Daypart.MORNING,
    var late: Int = 0
)

fun main() {
    val events: MutableList<Event> = mutableListOf()

    events.add(Event(name = "Wake up", about = "Time to get up", partDay = Daypart.MORNING, late = 0))
    events.add(Event(name = "Eat breakfast", about = "Time for breakfast", partDay = Daypart.MORNING, late = 15))
    events.add(Event(name = "Learn about Kotlin", about = "Study Kotlin programming", partDay = Daypart.AFTERNOON, late = 30))
    events.add(Event(name = "Practice Compose", about = "Practice Jetpack Compose", partDay = Daypart.AFTERNOON, late = 60))
    events.add(Event(name = "Watch latest DevBytes video", about = "Watch the latest video on DevBytes", partDay = Daypart.AFTERNOON, late = 10))
    events.add(Event(name = "Check out latest Android Jetpack library", about = "Explore the new Jetpack library", partDay = Daypart.EVENING, late = 45))

    val eventCount = events.size
    println("Количество запланированных событий: $eventCount")
    var morning = 0;
    var afternoon = 0;
    var evening = 0;
    for (event in events) {
        if (event.partDay == Daypart.MORNING)
            morning++;
        else if (event.partDay == Daypart.AFTERNOON)
            afternoon++;
        else
            evening++;
    }
    println("Morning: $morning events\nAfternoon: $afternoon events\nEvening: $evening events")
}
```

Количество запланированных событий: 6
Morning: 2 events
Afternoon: 3 events
Evening: 1 events

Задание 6.

Kotlin

SolutionsDocsCommunityTeachPlatform

2.0.21JVMProgram argumentsCopy linkShare code

```
enum class Daypart {
    MORNING,
    AFTERNOON,
    EVENING
}

class Event(
    var name: String = "",
    var about: String = "",
    var partDay: Daypart = Daypart.MORNING,
    var late: Int = 0
)

fun main() {
    val events: MutableList<Event> = mutableListOf()


    events.add(Event(name = "Wake up", about = "Time to get up", partDay = Daypart.MORNING, late = 0))
    events.add(Event(name = "Eat breakfast", about = "Time for breakfast", partDay = Daypart.MORNING, late = 15))
    events.add(Event(name = "Learn about Kotlin", about = "Study Kotlin programming", partDay = Daypart.AFTERNOON, late = 30))
    events.add(Event(name = "Practice Compose", about = "Practice Jetpack Compose", partDay = Daypart.AFTERNOON, late = 60))
    events.add(Event(name = "Watch latest DevBytes video", about = "Watch the latest video on DevBytes", partDay = Daypart.AFTERNOON, late = 10))
    events.add(Event(name = "Check out latest Android Jetpack library", about = "Explore the new Jetpack library", partDay = Daypart.EVENING, late = 45))

    val lastEvent = events.last()
    println("Последнее событие дня: ${lastEvent.name}")
}
```

Последнее событие дня: Check out latest Android Jetpack library

Задание 7.

2.0.21 JVM Program arguments

[Copy link](#) [Share code](#) 

```
enum class Daypart {
    MORNING,
    AFTERNOON,
    EVENING
}

class Event {
    var name: String = "",
    var about: String = "",
    var partDay: Daypart = Daypart.MORNING,
    var late: Int = 0
}

val Event.durationOfEvent: String
    get() = if (this.late < 60) "short" else "long"

fun main() {
    val events: MutableList<Event> = mutableListOf()

    events.add(Event(name = "Wake up", about = "Time to get up", partDay = Daypart.MORNING, late = 0))
    events.add(Event(name = "Eat breakfast", about = "Time for breakfast", partDay = Daypart.MORNING, late = 15))
    events.add(Event(name = "Learn about Kotlin", about = "Study Kotlin programming", partDay = Daypart.AFTERNOON, late = 30))
    events.add(Event(name = "Practice Compose", about = "Practice Jetpack Compose", partDay = Daypart.AFTERNOON, late = 60))
    events.add(Event(name = "Watch latest DevBytes video", about = "Watch the latest video on DevBytes", partDay = Daypart.AFTERNOON, late = 10))
    events.add(Event(name = "Check out latest Android Jetpack library", about = "Explore the new Jetpack library", partDay = Daypart.EVENING, late = 45))

    println("Duration of first event of the day: ${events[0].durationOfEvent}")
}
```

Duration of first event of the day: short