Лабораторная работа №2

1.
```
fun main() {
 val number = 45
 val tens = number / 10
 val units = number % 10
 val sum = tens + units
 val product = tens * units
 println("Десятки: $tens")
 println("Единицы: $units")
 println("Сумма: $sum")
 println("Произведение: $product")
}
```

2.
```
fun main() {
 val number = 123
 val units = number % 10
 val tens = (number / 10) % 10
 val hundreds = number / 100
 val sum = units + tens + hundreds
 val product = units * tens * hundreds
 println("Единицы: $units")
 println("Десятки: $tens")
 println("Сумма: $sum")
 println("Произведение: $product")
}
```

3.
```
fun main() {
 val a = 10
```

```
 val b = 2
 println(a.toDouble() / b)
}
```

4.
```
fun main() {
 val base = 2.0
 val exponent = 3.0
 println(Math.pow(base, exponent))
}
```

5.
```
fun main() {
 val number = 16.0
 println(Math.sqrt(number))
}
```

1.
```
fun main() {
 val A = true
 val B = false
 val C = false
 println("а) ${A || B}")
 println("б) ${A && B}")
 println("в) ${B || C}")
}
```

2.
```
fun main() {
 val X = false
 val Y = true
```

```
 val Z = false
 println("а) ${X || Z}")
 println("б) ${X && Y}")
 println("в) ${X && Z}")
}
```

3.
```
fun main() {
 val A = true
 val B = false
 val C = false
 println("а) ${!A && B}")
 println("б) ${A || !B}")
 println("в) ${A && B || C}")
}
```

4.
```
fun main() {
 val X = true
 val Y = true
 val Z = false
 println("а) ${!X && Y}")
 println("б) ${X || !Y}")
 println("в) ${X || Y && Z}")
}
```

5.
```
fun main() {
 val X = true
 val Y = true
 val Z = false
```

```
 println("а) ${!X && Y}")
 println("б) ${X || !Y}")
 println("в) ${X || Y && Z}")
}
```

6.
```
fun main() {
 val X = false
 val Y = false
 val Z = true
 println("а) ${X || Y && !Z}")
 println("г) ${X && !Y || Z}")
 println("б) ${!X && !Y}")
 println("д) ${X && (!Y || Z)}")
 println("в) ${!(X && Z) || Y}")
 println("е) ${X  !(Y Z)}")
}
```

7.
```
fun main() {
 val A = true
 val B = false
 val C = false
 println("а) ${A  !(A && B) C}")
 println("б) ${!A  A && (B C)}")
 println("в) ${(A || B && !C) && C}")
}
```