

The screenshot shows the IntelliJ IDEA interface with a Kotlin file named Main.kt open in the editor. The code prints a prompt, reads user input, and loops to print integers from 1 to the input value. The run output shows the program executing and printing integers 1 through 5.

```
1 fun main() {  
2     print("Enter the value of n: ")  
3     val n = readLine()  
4     if(n != null){  
5         for(i in 1..n.toInt()){  
6             println(i)  
7         }  
8     }  
9 }
```

Run: MainKt

```
"C:\Program Files\Java\jdk-13.0.1\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2019.3.3\lib\idea_rt.jar=5332,C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2019.3.3\bin" -Dfile.encoding=UTF-8  
Enter the value of n: 5  
1  
2  
3  
4  
5  
Process finished with exit code 0
```

Project

Main.kt

```
1 fun main() {
2     print("Enter the value of n: ")
3     val n = readLine()
4     if(n != null){
5         for(i in 1..n.toInt()){
6             if(i % 2 != 0)
7                 println(i)
8         }
9     }
10 }
```

Run: MainKt

```
"C:\Program Files\Java\jdk-13.0.1\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA CE 2020.3.3\lib\idea_rt.jar" -Dfile.encoding=UTF-8
Enter the value of n: 10
1
3
5
7
9
Process finished with exit code 0
```

Structure

Writter

```
Main.kt
```

```
> fun main() {
    print("Enter the value of first number: ")
    val a = readLine()
    print("Enter the value of second number: ")
    val b = readLine()
    print("Enter the operation: ")
    val op = readLine()
    if(a != null && b != null ){
        when(op) {
            "Addition" -> {
                var sum = a.toInt() + b.toInt()
                print("${a} + ${b} = ${sum}")
            }
            "Subtraction" -> {
                var sub = a.toInt() - b.toInt()
                print("${a} - ${b} = ${sub}")
            }
            "Multiplication" -> {
                var mul = a.toInt() * b.toInt()
                print("${a} * ${b} = ${mul}")
            }
            "Division" -> {
                var div = a.toInt() / b.toInt()
                print("${a} / ${b} = ${div}")
            }
        }
    }
}
```

```
Run: MainKt
```

```
"C:\Program Files\Java\jdk-13.0.1\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition
```

```
Enter the value of first number: 12
Enter the value of second number: 2
Enter the operation: Multiplication
12 * 2 = 24
Process finished with exit code 0
```

```
1     var sum = a.toInt() + b.toInt()
2     print("${a} + ${b} = ${sum}")
3 }
4 "Subtraction" -> {
5     var sub = a.toInt() - b.toInt()
6     print("${a} - ${b} = ${sub}")
7 }
8 "Multiplication" -> {
9     var mul = a.toInt() * b.toInt()
10    print("${a} * ${b} = ${mul}")
11 }
12 "Division" -> {
13     var div = a.toInt() / b.toInt()
14     print("${a} / ${b} = ${div}")
15 }
16
17 else -> println("Enter a valid Operation")
18 }
19 }
20 }
```

Run: MainKt X

```
"C:\Program Files\Java\jdk-13.0.1\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2019.3.3\lib\idea_rt.jar" -Dfile.encoding=UTF-8
Enter the value of first number: 12
Enter the value of second number: 2
Enter the operation: Multiplication
12 * 2 = 24
Process finished with exit code 0
```

```
Main.kt
1 fun main() {
2     print("Enter the number: ")
3     val n = readLine()
4     if (n != null) {
5         var m = 0;
6         var flag = 0;
7         m = n.toInt() / 2
8         for (i in 2..m) {
9             if (n.toInt() % i == 0) {
10                 flag = 1
11             }
12         }
13         if (flag == 0) {
14             println("The number is prime")
15         }else{
16             println("The number is not prime")
17         }
18     }
19 }

Run: MainKt
"C:\Program Files\Java\jdk-13.0.1\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2020.1.1\lib\idea_rt.jar" -Dfile.encoding=UTF-8
Enter the number: 8
The number is not prime

Process finished with exit code 0
```

```
1 ►  fun main() {
2     print("Enter the number: ")
3     val n = readLine()
4     if (n != null) {
5         var sum = 0;
6         var flag = 0;
7         sum = n.toInt() / 2
8         for (i in 2..sum) {
9             if (n.toInt() * i == sum) {
10                 flag = 1
11                 println("The number is not prime")
12             }
13         }
14         if (flag == 0) {
15             println("The number is prime")
16         }
17     }
18 }
19 }
```

Run: MainKt

```
"C:\Program Files\Java\jdk-13.0.1\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2019.2.3\lib\idea_rt.jar=5305,C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2019.2.3\bin" -Dfile.encoding=UTF-8
Enter the number: 37
The number is prime
I

Process finished with exit code 0
```

Structure

Favorites

```
Main.kt
1 fun main() {
2     val arr = arrayOf(300,400,500)
3     var sum = 0.0
4     for(num in arr){
5         sum += num
6     }
7     val avg = sum/arr.size
8     println("The average salary is: ${avg}")
9 }
10
11
12
13
14
```

Run: MainKt

```
"C:\Program Files\Java\jdk-13.0.1\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2019.2.3\lib\idea_rt.jar" -Dfile.encoding=UTF-8
The average salary is: 400.0

Process finished with exit code 0
```

_1 > src > main > kotlin > Main.kt

Main.kt

```
1 fun main() {  
2     val arr = arrayOf(300, 400, 500)  
3     var sum = 0.0  
4     for(num in arr){  
5         sum += num  
6     }  
7     val avg = sum/arr.size  
8     println("The average salary is: ${avg}")  
9 }
```

10
11
12
13
14

Run: MainKt

```
"C:\Program Files\Java\jdk-13.0.1\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021  
The average salary is: 400.0  
Process finished with exit code 0
```

Structure
Favorites

Run TODO Problems Terminal Build

```
MainKt
```

```
> fun main() {  
    val arr = arrayOf(4,7,8,24,13,32,9)  
    var sum = 0.0  
    for(num in arr) {  
        if (num % 2 == 0) {  
            sum += num  
        }  
    }  
    println("The sum of even numbers is: ${sum}")  
}  
  
Run: MainKt  
"C:\Program Files\Java\jdk-13.0.1\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2019.3.3\lib\idea_rt.jar" -Dfile.encoding=UTF-8  
The sum of even numbers is: 68.0  
Process finished with exit code 0
```

The screenshot shows the IntelliJ IDEA interface with a Kotlin file named MainKt open in the editor. The code is as follows:

```
1 fun main() {
2     val arr = arrayOf(10, 20, 70, 50, 30)
3     var largest = arr[0]
4     for(num in arr) {
5         if (largest < num) {
6             largest = num
7         }
8     }
9     println("The largest numbers is: ${largest}")
10 }
11
12
13
14
15
```

In the Run tab, the output of the program is displayed:

```
Run: MainKt ×
"C:\Program Files\Java\jdk-13.0.1\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition
The largest numbers is: 70
Process finished with exit code 0
```