

```
1 ► fun main() {  
2     print("Enter the number: ")  
3     val n = readLine()?.toInt()  
4     var fact = 1  
5     if(n != null){  
6         if(n == 0)  
7             fact = 1  
8         else{  
9             for(i in 1..n)  
10                fact *= i  
11        }  
12    }  
13    println("The factorial of ${n} is ${fact}")  
14 }
```

Run: MainKt

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

Structure

Enter the number: 5

The factorial of 5 is 120

Favorites

Process finished with exit code 0



Main.kt

```
1 fun main(){
2     print("Enter a 2d shape: ")
3     val shape = readLine()
4     println(shape)
5     when(shape) {
6         "Rectangle" -> {
7             print("Enter the length: ")
8             val l = readLine()?.toFloat()
9             print("Enter the breadth: ")
10            val b = readLine()?.toFloat();
11            if (l != null && b != null) {
12                var area = l * b
13                print("Area = ${area}")
14            }
15        }
16        "Circle"->{
17            val pi = 3.14
18            print("Enter the radius: ")
19            val r = readLine()?.toFloat()
20            if(r != null) {
21                var area = pi * r * r
22                print("Area = ${area}")
23            }
24        }
25    }
26 }
```

Run: MainKt

Enter a 2d shape: Triangle

Triangle

Enter the base: 2

Enter the height: 4

Area = 4.0

Process finished with exit code 0

Structure

Favorites

```
26 "Square" -> {
27     print("Enter the side: ")
28     val s = readLine()?.toFloat()
29     if(s != null){
30         var area = s * s
31         print("Area = ${area}")
32     }
33 }
34 "Triangle" -> {
35     print("Enter the base: ")
36     val b = readLine()?.toFloat()
37     print("Enter the height: ")
38     val h = readLine()?.toFloat();
39     if (b != null && h != null) {
40         var area = 0.5 * b * h
41         print("Area = ${area}")
42     }
43 }
44 }
45 }
46 }
```

Run: MainKt

Structure

Favorites

```
Enter a 2d shape: Triangle
Triangle
Enter the base: 2
Enter the height: 4
Area = 4.0
Process finished with exit code 0
```

Run TODO Problems Terminal Build

Build completed successfully in 2 sec, 485 ms (a minute ago)

```
1 > fun main(){
2     println("Enter the marks of 6 subjects: ")
3     var arr: Array<Int>? = null
4     arr = Array<Int>( size: 6) { readLine()?.toInt()!! }
5     var sum = 0.0
6     if (arr != null) {
7         for (i in arr) {
8             sum += i
9         }
10    val avg = sum / 6
11    println("The average marks are: ${avg}")
12    if(avg >= 90 && avg <= 100)
13        print("Grade: S-Outstanding")
14    else if(avg >= 80 && avg <= 90)
15        print("Grade: A-Excellent")
16    else if(avg >= 70 && avg <= 80)
17        print("Grade: B-Very Good")
18    else if(avg >= 60 && avg <= 70)
19        print("Grade: C-Good")
20    else if(avg >= 50 && avg <= 60)
21        print("Grade: D-Above Average")
```

Run: MainKt ×

```
▶ Enter the marks of 6 subjects:
↑ 60
↓ 78
↑ 95
↓ 64
↑ 89
↓ 52
```

The average marks are: 73.0

Grade: B-Very Good

Structure

Favorites

```
9
10    val avg = sum / 6
11    println("The average marks are: ${avg}")
12    if(avg >= 90 && avg <= 100)
13        print("Grade: S-Outstanding")
14    else if(avg >= 80 && avg <= 90)
15        print("Grade: A-Excellent")
16    else if(avg >= 70 && avg <= 80)
17        print("Grade: B-Very Good")
18    else if(avg >= 60 && avg <= 70)
19        print("Grade: C-Good")
20    else if(avg >= 50 && avg <= 60)
21        print("Grade: D-Above Average")
22    else if(avg >= 40 && avg <= 50)
23        print("Grade: E-Poor")
24    else
25        print("Fail")
26
27
28
29
```

Run: MainKt

Enter the marks of 6 subjects:

60

78

95

64

89

52

The average marks are: 73.0

Grade: B-Very Good

Structure

Favorites

```
1 fun main() {
2     print("Enter the size of the array: ")
3     val arrSize = readLine()?.toInt()
4     var arr: Array<Int>? = null
5     if(arrSize != null) {
6         println("Enter the array elements: ")
7         arr = Array<Int>(arrSize) { readLine()?.toInt()!! }
8
9         if (arr != null) {
10             println("The cube of elements present in the array")
11             for (i in arr) {
12                 var i = i * i * i
13                 println(i)
14             }
15         }
16     }
17 }
18
19
20
```

Run: MainKt

```
Enter the size of the array: 3
Enter the array elements:
2
3
4
The cube of elements present in the array
8
27
64
```

```
1 > fun main(){
2     println(" Sample Calender ")
3     print("Su")
4     for(i in 1..29 step 7)
5         print(" ${i} ")
6     println(" ")
7     print("Mo")
8     for(i in 2..30 step 7)
9         print(" ${i} ")
10    println(" ")
11    print("Tu")
12    for(i in 3..24 step 7)
13        print(" ${i} ")
14    println(" ")
15    print("We")
16    for(i in 4..25 step 7)
17        print(" ${i} ")
18    println(" ")
19    print("Th")
20    for(i in 5..26 step 7)
21        print(" ${i} ")
22    println(" ")
```

Run: MainKt ×

Sample Calender					
Su	1	8	15	22	29
Mo	2	9	16	23	30
Tu	3	10	17	24	
We	4	11	18	25	
Th	5	12	19	26	
Fr	6	13	20	27	
Sa	7	14	21	28	

```
12     for(i in 3..24 step 7)
13         print(" ${i} ")
14         println(" ")
15         print("We")
16         for(i in 4..25 step 7)
17             print(" ${i} ")
18             println(" ")
19             print("Th")
20             for(i in 5..26 step 7)
21                 print(" ${i} ")
22                 println(" ")
23                 print("Fr")
24                 for(i in 6..27 step 7)
25                     print(" ${i} ")
26                     println(" ")
27                     print("Sa")
28                     for(i in 7..28 step 7)
29                         print(" ${i} ")
30     }
```

Run: MainKt

Sample Calender					
Su	1	8	15	22	29
Mo	2	9	16	23	30
Tu	3	10	17	24	
We	4	11	18	25	
Th	5	12	19	26	
Fr	6	13	20	27	
Sa	7	14	21	28	

Structure

Favorites

Run TODO Problems Terminal Build