

FORMAN CHRISTIAN COLLEGE (A CHARTERED UNIVERSITY)

Department of Computer Science

COMP 468(A) Homework 1

KOTLIN



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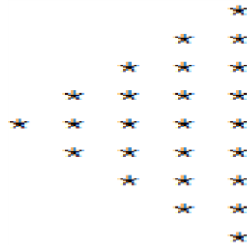
Task 1: Practice using conditions

CODE

```
fun main() {  
    val weekday = "Friday"  
    println("On $weekday the opening hours are:")  
  
    if (weekday == "Monday" || weekday == "Tuesday" || weekday == "Wednesday") {  
        println("8 AM to 5 PM (8:00 – 17:00)")  
    } else if (weekday == "Thursday" || weekday == "Friday") {  
        println("8 AM to 6 PM (8:00 – 18:00)")  
    } else if (weekday == "Saturday") {  
        println("9 AM to 1 PM (9:00 – 13:00)")  
    } else if (weekday == "Sunday") {  
        println("Closed")  
    }  
  
    when (weekday) {  
        "Monday", "Tuesday", "Wednesday" -> println("8 AM to 5 PM (8:00 – 17:00)")  
        "Thursday", "Friday" -> println("8 AM to 6 PM (8:00 – 18:00)")  
        "Saturday" -> println("9 AM to 1 PM (9:00 – 13:00)")  
        "Sunday" -> println("Closed")  
    }  
}
```

Task 2: Practice using “For in” Loop

Attempt to use **for in** loops to display the triangle shape below:



CODE

```
fun main() {  
    val size = 5  
  
    // Print upper part of the left-pointing triangle  
    for (i in 1..size) {  
        for (j in 1..(size - i)) {  
            print(" ") // print spaces to shift stars to the right  
        }  
        for (k in 1..i) {  
            print("*")  
        }  
        println()  
    }  
  
    // Print lower part of the left-pointing triangle  
    for (i in 1 until size) {  
        for (j in 1..i) {  
            print(" ") // print spaces to shift stars to the right  
        }  
    }
```

```
    for (k in i until size) {  
        print("*")  
    }  
    println()  
}  
}
```

Task 3: Define a Function that Adds Points

CODE

```
var score = 0
```

```
fun main() {  
    fun getPoints(basePoints: Int, boost: Int): Int {  
        return basePoints * boost  
    }  
}
```

```
score += getPoints(0, 0)  
println(score) // Output: 0
```

```
score += getPoints(10, 1)  
println(score) // Output: 10
```

```
score += getPoints(10, 5)  
println(score) // Output: 50
```

```
score += getPoints(20, 2)  
println(score) // Output: 40
```

```
score += getPoints(11, 5)
```

```
println(score) // Output: 55  
}
```