**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:

A group of small black and yellow objects

Description automatically generated

**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

}