Session 2: Lab – Student Performance Report

Student Name: Srajan

Explanation: This program generates a student performance report using functions, loops, and conditional statements. It calculates the average marks, assigns a grade, and determines pass or fail status in a structured and modular way.

Program Code

```
fun main() {

    val studentName = "Srajan"
    val marks = listOf(85, 72, 90, 66, 78)

    println("Student Performance Report")
    println("Name: $studentName")

    for (mark in marks) {
        println("Mark: $mark")
    }

    val average = calculateAverage(marks)
    println("Average: $average")

    val grade = calculateGrade(average)
    println("Grade: $grade")

    if (average >= 60) {
        println("Result: Pass")
    } else {
        println("Result: Fail")
    }
}

fun calculateAverage(marks: List<Int>): Double {
    var total = 0
    for (mark in marks) {
        total += mark
    }
    return total.toDouble() / marks.size
}

fun calculateGrade(avg: Double): String {
    return when {
        avg >= 90 -> "A+"
        avg >= 80 -> "A"
        avg >= 70 -> "B"
        avg >= 60 -> "C"
        else -> "Fail"
    }
}
```