Kotlin Assignment (week-1)

Note: Try and make use of string templates, range, conditionals and such features from Kotlin in your code. If you are stuck Google your problem or start a discussion on the group or approach Siddharth, Santosh, Megh or Sanskar.

Submission: Create a public repository on your GitHub account called **android-jams** in there create a folder **week-1** and save you files there. Name the file with the question number, e.g. q1, q2, q3 with a '.kt' extension like this 'q3.kt'.

Links: GitHub Tutorial - GitHub Tutorial

Submission Form - Google Form

Control Flow

1. Write a condition to check if the given number is Positive or negative
2. Write a Kotlin program to find maximum between three numbers.
3. Return absolute value of the given argument.
4. Write a Kotlin program to check if a number is divisible by 5 and 11 or not.
5. Write a Kotlin program to check whether a triangle is equilateral, isosceles or scalene. Take the sides as a user input. (hint: use readLine)
6. Write a Kotlin program to check whether a character is alphabet or not. (hint: you can use `range` and `in` here)

Loops

7. Find factorial of the given number
8. Calculate and print sum of factorials
   e.g. SumOfFactorials(3) // !1+!2+!3 = 9
9. Calculate and print sum of all Even numbers
10. Print out half pyramid of given height e.g.
    n=4
    #
    ##
    ###
    ####
11. Write a Kotlin Program to Check if given three-digit number is an Armstrong Number e.g.: 153 = (1*1*1)+(2*2*2)+(3*3*3)
12. Write a kotlin Program to Check if given n-digit number is an Armstrong Number e.g. abcd... = $a^n + b^n + c^n + d^n + ... + n^n$