Loops
(Assignment Questions)

Question 1 : WAP to find the **Factorial** of a number entered by the user.

Hint *: factorial of a number (n) = n * (n-1) * (n-2) * (n-3) * ..... * 1*
and exists for positive numbers only. We write factorial as n!
So, factorial of 0! = 1, 1! = 1, 2! = 2, 3! = 6, 4! = 24 and so on.
Note - Please do not confuse factorial with NOT EQUAL TO operator, they are not the same.

Question 2 : WAP to print the multiplication table of a number, entered by the user.

Question 3 : WAP to input a number and check whether the number is an **Armstrong** number or not.

*An **Armstrong** number is a number that is equal to the sum of cubes of its digits.*

Question 4 : For a positive N , WAP that prints all the prime numbers from 2 to N.
(Assume N >= 2)

Question 5 : For a positive N , WAP that prints the first N **Fibonacci** numbers.
(Assume N >= 2)
Fibonacci *series : 0, 1, 1, 2, 3, 5, 8, 13, 21, 34 ….*
This is a series where each number is a sum of previous 2 numbers in the series.
Eg : ***1*** *= 0 + 1,*
2 *= 1 + 1,*
3 *= 1 + 2,*
5 *= 2 + 3,*
8 *= 3 + 5 & so on.*