

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 <math>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 $N \ge 2$)

Question 5: For a positive N , WAP that prints the first N **Fibonacci** numbers. (Assume $N \ge 2$)

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. UTIOOK.COM