

Note: Please don't edit this doc

Question 1: Calculate Factorial

Factorial of any number n is represented by $n!$ and is equal to $1*2*3*...*(n-1)*n$.

E.g.-

$$4! = 1*2*3*4 = 24$$

$$3! = 3*2*1 = 6$$

$$2! = 2*1 = 2$$

Also,

$$1! = 1$$

$$0! = 1$$

Write a program to calculate the factorial of a number.

Question 2:

Print the following patterns using loop :

a.

*

**

b.

*

*

c.

1010101

10101

101

1

Question 3: Calculate the average

Write a program that takes integer inputs from the user until he/she presses q (Ask to press q to quit after every integer input). Print average and product of all numbers.

Question 4: Calculate the average

Write a program that calculates the average of all elements in the following array/list

```
my_list= [1,22,32,12,55,88,76,54,2,1,22,33,44,5,6,6,7,5,0]
```