**Python - practice number 2**

**Class exercises (finish at home)**

1. Write a program that accepts a value for a variableage. If age equals 18, print "Congratulations". If age is less than 18 "You are so young" will be printed, otherwise "We love old people" will be printed. Check that the code you wrote works by setting different values ​​at runtime and checking the resulting output.
2. Write a plan that includes 3 sides of a triangle:a, b, c. Check whether it is possible to build a triangle from the given sides. First check that all sides have positive values. Also, a triangle can only be constructed if the sum of any two sides is greater than the third side. If it is not possible to construct a triangle from these sides, an appropriate message must be issued. If possible, calculate and present the area of ​​the triangle according to the Rhone formula.

\mathrm{area} = \sqrt{s\left(s-a\right)\left(s-b\right)\left(s-c\right)}\,

a, b, crepresent the sides of the triangle andsrepresents the perimeter of the triangle divided by 2:

s=\frac{a+b+c}{2}

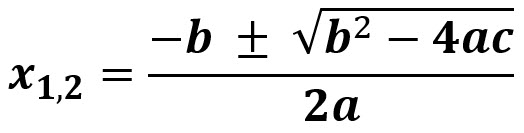
1. Write a program that receives as input: a number representing a month and a number representing the salary an employee received that month. The program will display as an output his average salary per day in this month (take into account that: Fridays and Saturdays are not working days - a total of 8 days in a month, and that February has 28 days). Refer to the variable number of days each month.

**for example:**For the input (from left to right): 10000 3

(March has 31 days)

The output will be: 434.78your average salary per day:

1. must be absorbeda, b, c coefficients of a quadratic equation of the form: ax² + bx + c = 0

The roots of the quadratic equation must be calculated and presented according to the equation of the roots (if it is possible to calculate):

Check the output of your program according to the following examples:

**Exercise 1**  
x²+7x+12=0   
a=1, b=7, c=12x1= -4, x2= -3

**Exercise 2**  
x²-3x-10=0a=1, b=-3, c=-10  
Answer: x1=5, x2=-2.

**Exercise 3**  
-4x²-7x+2=0a=-4, b=-7, c=2x1=-2, x2=0.25

**Exercise 4**  
4x²-12x+9=0a=4, b=-12, c=9x=1.5

**Exercise 5**  
-x²+6x-10=0a=-1, b=6, c=-10  
This equation has no solutions (because the expression inside the root is negative)

**Successfully !!!**