Python Lab (1)

1) **Installing Anaconda:**
   - Download Anaconda Distribution | Anaconda
   - Installing Anaconda Distribution — Anaconda documentation

2) Assign a message to a variable, and then print that message.

3) Use a variable to represent your favorite number. Then, using that variable, create a message that reveals your favorite number. Print that message.

4) The volume of a sphere with radius r is $4/3\pi r^3$. What is the volume of a sphere with radius 5? Start with a variable named radius and then assign the result to a variable named volume. Display the result. Add comments to indicate that radius is in centimeters and volume in cubic centimeters.

5) Let's your program already contains two integer variables, x and y:
   x = 27
   y = 15
   Please complete the program so that it also prints out the following:
   27 + 15 = 42
   27 - 15 = 12
   27 * 15 = 405
   27 / 15 = 1.8

6) Please write a program which asks the user for a number of days. The program then prints out the number of seconds in the number of days given.
   How many days? 1
   Seconds in that many days: 86400

7) Please write a program which asks for the number of students on a course and the desired group size. The program will then print out the number of groups formed from the students on the course. If the division is not even, one of the groups may have fewer members than specified.

Simple output (1)

How many students on the course? 8
Desired group size? 4
Number of groups formed: 2

Simple output (2)

How many students on the course? 11
Desired group size? 3
Number of groups formed: 4

Hint: the integer division operator // could come in handy here.