

# Conditionals and Looping

1. Have a look at following tutorials:
  - a. <https://realpython.com/python-conditional-statements/>
  - b. [https://www.w3schools.com/python/python\\_conditions.asp](https://www.w3schools.com/python/python_conditions.asp)
  - c. <https://www.programiz.com/python-programming/if-elif-else>
  - d. <https://realpython.com/python-for-loop/>
  - e. <https://www.programiz.com/python-programming/for-loop>
  - f. <https://realpython.com/python-while-loop/>
  - g. <https://www.programiz.com/python-programming/while-loop>
  - h. <https://www.programiz.com/python-programming/break-continue>
2. Write a Python program to find those numbers which are divisible by 7 and multiple of 5, between 1500 and 2700 (both included).
3. Write a Python program to guess a number between 1 to 9. Go to the editor  
Note : User is prompted to enter a guess. If the user guesses wrong then the prompt appears again until the guess is correct, on successful guess, user will get a "Well guessed!" message, and the program will exit.
4. Write a Python program to count the number of even and odd numbers from a series of numbers. It should print 2 numbers (counts).
5. Write a Python program that prints each item and its corresponding type from the following list: `datalist = [1452, 11.23, 1+2j, True, 'w3resource', (0, -1), [5, 12], {'class': 'V', 'section': 'A'}]`.
6. Write a Python program which takes two digits m (row) and n (column) as input and generates a two-dimensional array. The element value in the i-th row and j-th column of the array should be i\*j.
7. Write a Python program that accepts a string and calculate the number of digits and letters.
8. Write a Python program to find numbers between 100 and 400 (both included) where each digit of a number is an even number. The numbers obtained should be printed in a comma-separated sequence.
9. Write a Python program to convert month name to a number of days. It should receive a user input month.
10. Write a Python program to check a triangle is equilateral, isosceles or scalene.  
An equilateral triangle is a triangle in which all three sides are equal.  
A scalene triangle is a triangle that has three unequal sides.  
An isosceles triangle is a triangle with (at least) two equal sides.

You should send me the file with examples, file should be named: "name\_surname\_hw\_6.py".