Python Programming

Day 7: Control Statement

Python  Programming

Tutorials

Exercise 1:

Write a function to convert a numerical grade to a letter grade, ‘A’, ‘B’, ‘C’, ‘D’ or ‘F’, where the cutoffs for ‘A’, ‘B’, ‘C’, and ‘D’ are 90, 80, 70, and 60 respectively.

Exercise 2:

Write a program sign.py to ask the user for a number. Print out which category the number is in: 'positive', 'negative', or 'zero'.

Exercise 3:

Write a Python program to count the number of even and odd numbers from a series of numbers.

Sample numbers : numbers = (1, 2, 3, 4, 5, 6, 7, 8, 9)

Exercise 4:

Write a Python program to construct the following pattern, using a nested for loop.

```
*
* *
* * *
* * * *
* * * * *
* * * *
* * *
* *
*
```


Exercise 5:

Write a Python program that prints all the numbers from 0 to 6 except 3 and 6.

Note : Use 'continue' statement.

Expected Output : 0 1 2 4 5

Exercise 6:

Write a Python program to get the Fibonacci series between 0 to 50.
Note : The Fibonacci Sequence is the series of numbers :
0, 1, 1, 2, 3, 5, 8, 13, 21, ...
Every next number is found by adding up the two numbers before it.
Expected Output : 1 1 2 3 5 8 13 21 34

Exercise 7:

Write a Python program that accepts a string and calculate the number of digits and letters.

Sample Data : Python 3.2
Expected Output :
Letters 6
Digits 2

Exercise 8:

Write a Python program to create the multiplication table (from 1 to 10) of a number.

Expected Output:

Input a number: 6

6 x 1 = 6
6 x 2 = 12
6 x 3 = 18
6 x 4 = 24
6 x 5 = 30
6 x 6 = 36
6 x 7 = 42
6 x 8 = 48
6 x 9 = 54
6 x 10 = 60

Exercise 9:

Write a Python program to check whether an alphabet is a vowel or consonant.

Expected Output:

Input a letter of the alphabet: k

k is a consonant.

Next Lecture ...

Python Programming

Day 8: Functions