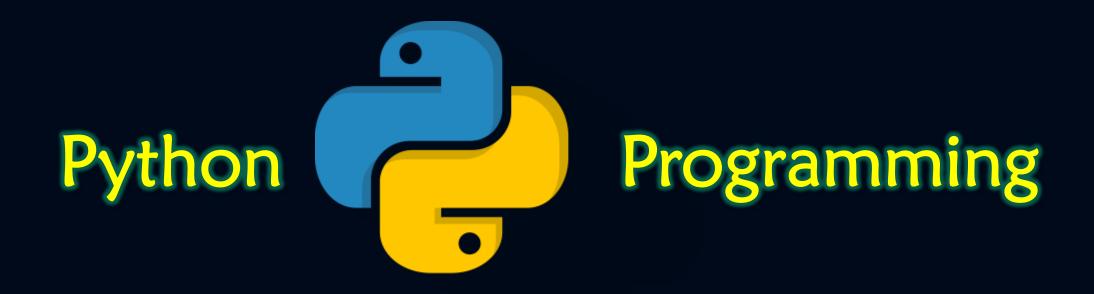


Day 7: Control Statement





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

$$6 \times 1 = 6$$

$$6 \times 2 = 12$$

$$6 \times 3 = 18$$

$$6 \times 4 = 24$$

$$6 \times 5 = 30$$

$$6 \times 6 = 36$$

$$6 \times 7 = 42$$

$$6 \times 8 = 48$$

$$6 \times 9 = 54$$

$$6 \times 10 = 60$$



Exercise 9:

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

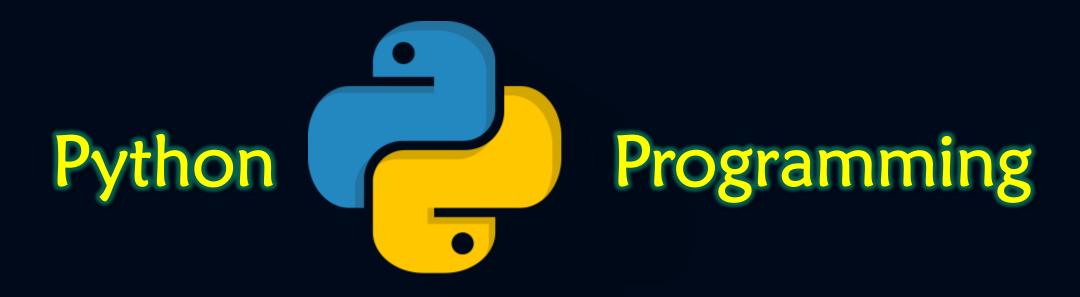
Expected Output:

Input a letter of the alphabet: k

k is a consonant.



Next Lecture ...



Day 8: Functions

