# Data Wrangling using Python

## Chapter-2

This chapter deals with various data types and some basic python concepts for beginners. Different data types discussed are strings, integers, and floats, variables, lists, and dictionaries. Strings are denoted within the quotes whereas integers and floats are denoted without quotes. Sometimes we store the numbers as string as python does not know how to process a number starting with zero. Python float might cause accuracy issue, in case accuracy is important we should use the decimal module and set the precision to the desired point.

Data containers hold multiple data points. Variables, lists, and dictionaries are data containers. A variable is a way to store values. A new variable does not return anything. Some naming conventions for variables are: no hyphens, using lower case with words separated by underscore and variable names cannot start with a number. A list is a group of values that have some relationship in common. They can store variables, and a list can also store different lists. Dictionaries contain keys and values; the definition of keys are known as values.

The things that data types can do are called methods. Dot notation (.) is used to access methods. In python, each python string can share the same methods. The built-in methods and basic data types are included in python standard library known as stdlib. This chapter includes various commonly used methods. Methods used for string operations are strip () and upper (). For some mathematical operations, special formatting is required. List methods like append () and remove () are used to append and remove items from the list respectively. To return all the keys of a dictionary method keys () can be used.

The chapter also includes a few tools like type, dir, and help. After reading this chapter I am better versed in various basic python concepts. Now I am more confident of creating dictionaries and performing basic operations. This chapter will make it easier for me to understand the following concepts.