Python Notes

Arguments – They are values that you pass into a function so it can work with different values.

Types of arguments:

1. Positional Arguments
2. Keyword Arguments
3. Default Arguments
4. Variable Length Positional Arguments (\*args)
5. Variable Length Keyword Arguments (\*\*kwargs)
6. Positional Arguments:

Most basic arguments.

The order matters- values are assigned to parameters in the order they are passed.

If you change the order the function may behave incorrectly.

1. Keyword Arguments:

You can pass arguments using their names (Keywords).

The order does not matter, because we specify which argument goes where.

1. Default Arguments:  
   You can assign a default value to the argument.

If no value is passed, the default is used.

1. Variable Length Positional Arguments (\*args):  
   When we do not know the number of arguments we want to pass.

\*args allows a function to accept any number of positional arguments.

These values are stored as a Tuple.

1. Variable Length Keyword Arguments (\*\*kwargs):  
   Similar to \*args, but for keyword arguments.

\*\*kwargs collects them into a dictionary (Key : Value pairs).

The function can accept any number of named arguments.

Kwargs is stored as a dictionary.