**Experiment 8**

Title -: Miscellaneous Concepts in Python

Perform following task using MySQL database from Python :

1. Create arithmetic.py file which contains code for add(), sub(), mul(), div(), etc.

Use above file as module in another file and call respective arithmetic functions.

1. Demonstrate working of \_\_name\_\_ with proper example.
2. Use operator overloading (+) for adding 2 distance objects. Each distance object is having 3 parts – KM, Meters, CM.

E.g. dist1=2Km, 90M, 10Cm

dist2=3Km, 9M, 5Cm

dist3=dist1+dist2

Then dist3 should be 5Km, 99M, and 15cm

1. Write python code to demonstrate duck typing.
2. Write python code to demonstrate working of Iterator and Generator.
3. Write python code to demonstrate working of Lambda function.

Resources :

1. <https://www.youtube.com/watch?v=1RuMJ53CKds&list=PLsyeobzWxl7poL9JTVyndKe62ieoN-MZ3&index=48>
2. <https://www.youtube.com/watch?v=pzNISmtmzcY&list=PLsyeobzWxl7poL9JTVyndKe62ieoN-MZ3&index=49>
3. <https://www.youtube.com/watch?v=9wd50TKv_OQ>
4. <https://www.youtube.com/watch?v=CuK0g8OFzwo&list=PLsyeobzWxl7poL9JTVyndKe62ieoN-MZ3&index=61>
5. <https://www.youtube.com/watch?v=Dyu08G2l71c&list=PLsyeobzWxl7poL9JTVyndKe62ieoN-MZ3&index=64>
6. <https://www.youtube.com/watch?v=GqHLztqy0PU&list=PLsyeobzWxl7poL9JTVyndKe62ieoN-MZ3&index=67>
7. <https://www.youtube.com/watch?v=hYzwCsKGRrg&list=PLsyeobzWxl7poL9JTVyndKe62ieoN-MZ3&index=45>