**Some theory questions from question papers.**

1. Why python is a great first language and explain 3 of its applications. How would you use the float and round functions? Explain with an example.
2. Explain with a neat diagram how python compiles and runs source code.
3. What is a list and how do you create it? How to use append, insert and remove items to/ from a list? Explain with suitable examples.
4. How do we raise an exception and multiple exceptions in python.
5. Differentiate between the 3 different read methods of a file object with an example for each.
6. List the functions that can be used to write to a CSV file.
7. Which are the read and write methods of a file object? Explain with examples for each.
8. Explain the following concepts with examples for each (i)Encapsulation
   1. (ii) Inheritance(iii)Polymorphism (iv)Overriding
9. What is function overriding? Develop a simple function (which displays a message “Hello!! str is overriden”) to override a \_\_str\_\_() method of the object class in Python
10. What is a cursor object and what is its significance? Explain with an example how to :
    1. (i)get a cursor object from the connection object
    2. (ii)execute a SELECT statement (iii)automatically close a cursor object
11. How can we retrieve data from a table in SQLite database? Which are the methods used? Illustrate with an example.
12. How do we handle database exceptions in python? Show which error would be raised if a table is not found in a database with an example and how can it be handled?
13. What is the difference between fetchone and fetchall method of the cursor object?