Python-MySQL Connectivity

1. Name a library used to connect python and mysql. Is there only one such library?
2. List out the steps involved in connecting database with python and explain.
3. Give the import statement needed for db connectivity?
4. Name the function used to open a connection to Mysql database and explain its arguments.
1. What is connection object?
2. Write the use of is_connected().
3. What is the need for cursor?
1. What is database cursor?
2. Name the function used to create cursor instance in database connectivity.
3. Write the use of execute() function in database connectivity.
4. What is result set?
5. How can we extract data from result set?
6. List out the fetch…() functions and write their uses.
7. Write the use of rowcount.
1. Write a suitable program to show the use of fetchall(), fetchmany(), fetchone() and rowcount.
2. What will happen if we use the fetchone() function more than once for the same cursor?
3. How to close the database connection? Give example.
4. What is parameterized query?
5. Write code to insert a row into the table student(roll,name,marks) using old style of string templates.
1. What will the following code do?

   Mark=100
   Roll=101
   Tup=(100,101)
   Q=”update student mark=%s where id=%s”
   cursor.execute(q,input)
1. Write code to insert a row into the table student(roll,name,marks) using new style of string templates.
2. Write the use of format() function.
3. What are named arguments in format().Give example.
4. When should we place the %s or {} in quotes.
1. Write the situations were commit() is must while dealing with python-mysql connectivity programs.

In the following way we can establish a connection with mysql database if we are using mysqldb

```
import MySQLdb
mydb=MySQLdb.connect("localhost","root","root","school")
print(mydb)
```

In both ways we are specifying host, user, password and database name as arguments. Database is optional argument. We can include it when we want to create database through programming.