

16-10-2024

Training Day – 22

Libraries In Python where the name of library given at installation time is different and while importing, the library name is different. Sometimes new versions of libraries comes with new names.

```
import speech_recognition
```

For installation library name is: SpeechRecognition

```
import speech_recognition
```

DATABASE:

Types of databases: multiple types but two are majorly used:

1. Relational Database
2. Non-relational Database

1. Relational Database: data is stored in the form of tables and tables are connected through some keys.

Examples: MySQL, Oracle, MS-SQL Server, MS-Access, PostGre-SQL

2. Non-relational database: No-sql databases. Data is available in multiple structures

Examples: MongoDB, Cassandra Server...

Relational databases: MySQL Database

For installation: CETPA Video

There are two options to works on database:

1. Directly install the database and start writing the queries.
2. We can install LAMP, WAMP or XAMP Server on our machine and then use database: Here you can work in

Database Connectivity: ie we run the query in python and it should be executed in database

For Database Connectivity: We need to have

1. IP Address: If database is installed in our machine:

Local IP Address of each machine: 127.0.0.1

and this address is called 'localhost'

2. User Id: ie user name

```
user=root
```

3. Password:

```
pwd=root123
```

4. Database name: db1 (Can be given through queries)

5. Port: 3306 (Optional)

```
"""
```