

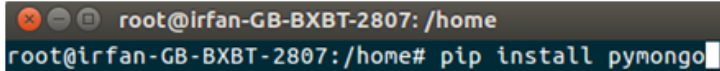
# Python MongoDB Connectivity

To create connection between Python programming language and MongoDB database, we need to first install **pymongo** driver. Here, we are creating an example that connects to the database and performs basic database operations.

This example includes the following steps:

## 1) Install Driver

```
$ pip install pymongo
```



```
root@irfan-GB-BXBT-2807: /home  
root@irfan-GB-BXBT-2807:/home# pip install pymongo
```

## 2) Create Python File

// connect.py

```
from pymongo import MongoClient # import mongo client to connect  
import pprint  
# Creating instance of mongoclient  
client = MongoClient()  
# Creating database  
db = client.javatpoint  
employee = {"id": "101",  
            "name": "Peter",  
            "profession": "Software Engineer",  
            }  
# Creating document  
employees = db.employees  
# Inserting data  
employees.insert_one(employee)  
# Fetching data  
pprint.pprint(employees.find_one())
```

## 3) Execute Python Script

This script prints the inserted record on the console.

```

root@irfan-GB-BXBT-2807: /home/irfan/irfan/mongodb-connectivity/python
root@irfan-GB-BXBT-2807:/home/irfan/irfan/mongodb-connectivity/python# python connect.py
{'_id': ObjectId('591fe9053c10b922e83a73cb'),
 'id': u'101',
 'name': u'Peter',
 'profession': u'Software Engineer'}

```

#### 4) Enter into Mongo Shell

Now, enter into MongoDB database shell to see the created database and collection.

We can use following command to enter into the database.

```
$ mongo
```

```

root@irfan-GB-BXBT-2807: /home/irfan
root@irfan-GB-BXBT-2807:/home/irfan# mongo
MongoDB shell version: 3.2.13
connecting to: test
Server has startup warnings:
2017-05-20T09:18:57.106+0530 I CONTROL [initandlisten]
2017-05-20T09:18:57.106+0530 I CONTROL [initandlisten] ** WARNING: /sys/kernel/
mm/transparent_hugepage/enabled is 'always'.
2017-05-20T09:18:57.106+0530 I CONTROL [initandlisten] **          We suggest set
ting it to 'never'
2017-05-20T09:18:57.107+0530 I CONTROL [initandlisten]
2017-05-20T09:18:57.107+0530 I CONTROL [initandlisten] ** WARNING: /sys/kernel/
mm/transparent_hugepage/defrag is 'always'.
2017-05-20T09:18:57.107+0530 I CONTROL [initandlisten] **          We suggest set
ting it to 'never'
2017-05-20T09:18:57.107+0530 I CONTROL [initandlisten]

```

#### 5) Check Databases

The following command is used to show available databases.

```
> show dbs
```

```

root@irfan-GB-BXBT-2807: /home/irfan
root@irfan-GB-BXBT-2807:/home/irfan# mongo
MongoDB shell version: 3.2.13
connecting to: test
Server has startup warnings:
2017-05-20T09:18:57.106+0530 I CONTROL [initandlisten]
2017-05-20T09:18:57.106+0530 I CONTROL [initandlisten] ** WARNING: /sys/kernel/
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mm/transparent_hugepage/defrag is 'always'.
2017-05-20T09:18:57.107+0530 I CONTROL [initandlisten] **          We suggest set
ting it to 'never'
2017-05-20T09:18:57.107+0530 I CONTROL [initandlisten]
> show dbs;
javatpoint  0.000GB

```

#### 6) Check Collection

The following command is used to show available collection into the database.

```
> show collections
```

```
root@irfan-GB-BXBT-2807: /home/irfan
root@irfan-GB-BXBT-2807:/home/irfan# mongo
MongoDB shell version: 3.2.13
connecting to: test
Server has startup warnings:
2017-05-20T09:18:57.106+0530 I CONTROL [initandlisten]
2017-05-20T09:18:57.106+0530 I CONTROL [initandlisten] ** WARNING: /sys/kernel/
mm/transparent_hugepage/enabled is 'always'.
2017-05-20T09:18:57.106+0530 I CONTROL [initandlisten] **          We suggest set
ting it to 'never'
2017-05-20T09:18:57.107+0530 I CONTROL [initandlisten]
2017-05-20T09:18:57.107+0530 I CONTROL [initandlisten] ** WARNING: /sys/kernel/
mm/transparent_hugepage/defrag is 'always'.
2017-05-20T09:18:57.107+0530 I CONTROL [initandlisten] **          We suggest set
ting it to 'never'
2017-05-20T09:18:57.107+0530 I CONTROL [initandlisten]
> show dbs;
javatpoint  0.000GB
> use javatpoint
switched to db javatpoint
> show collections
employee
```

## 7) Access Records

We can see the stored records in particular collection. The following command is used to show the record.

```
> db.employees.find()
```

```
> show collections
employees
> db.employee.find()
> db.employees.find()
{ "_id" : ObjectId("591fe9053c10b922e83a73cb"), "profession" : "Software Enginee
r", "id" : "101", "name" : "Peter" }
>
```

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