Name: Vaibhav Bharat Sontakke

PRN: 1942207 Batch: T2

AIM: To perform operations on collection.

- a) Retrieve all documents in a collection which matches certain property.
- b) Perform queries that uses MongoDB query operators.

OUTPUT:

Output using pretty() & find():

Output using the where clause not equal to & Greater than:

Output using the where clause Less than & AND operator

```
db.std_data1.find(("prn":{$1t:"1942210"})).pretty()

{
        "_id" : ObjectId("5fec273960081135839d8c97"),
        "name" : "vaibhav",
        "prn" : "1942207",
        "Branch" : "computer"
}

{
        "_id" : ObjectId("5fec273960081135839d8c98"),
        "name" : "priya",
        "prn" : "1942208",
        "Branch" : "Mechnical"
}

{
        "_id" : ObjectId("5fec273960081135839d8c99"),
        "name" : "Ahmad",
        "prn" : "1942209",
        "Branch" : "ENTC"
}
```

Output using the where clause OR operator:

```
db.std_data1.find("$or"[{"prn":"1942207","name":"vaibhav"}]).pretty()

"_id" : ObjectId("5fec273960081135839d8c97"),
    "name" : "vaibhav",
    "prn" : "1942207",
    "Branch" : "computer"

"_id" : ObjectId("5fec273960081135839d8c98"),
    "name" : "priya",
    "prn" : "1942208",
    "Branch" : "Mechnical"

"_id" : ObjectId("5fec273960081135839d8c99"),
    "name" : "Ahmad",
    "prn" : "1942209",
    "Branch" : "ENTC"

"_id" : ObjectId("5fec273960081135839d8c9a"),
    "name" : "Snehal",
    "prn" : "1942210",
```

Output using the Python library print and for loop:

```
Select Command Prompt python
Nicrosoft Windows [Version 10.0.19041.685]
(c) 2020 Microsoft Corporation. All rights reserved.
(c) 2020 Microsoft Corporation. All rights reserved.

C:\Users\justi>python
Python 3.8.6rc1 (tags/v3.8.6rc1:080bd63d, Sep 7 2020, 23:10:23) [MSC v.1927 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.

>>> from pymongo import MongoClient
>>> cons "mongodb://127.0.0.1:27017/"

>>> client = MongoClient(con)
>>> print(client.list_database_names())
['admin', 'config', 'local', 'student', 'students']
>>> dal.list_collection_names()
Traceback (most recent call last):
File "cstdin", line 1, in (module)
Namerror: name 'db' is not defined
>>> collection = db.get_collection("std_data1")
Traceback (most recent call last):
File "cstdin", line 1, in (module)
NameFror: name 'db' is not defined
>>> db. list_collection. Find()
>>> db. list_collection. Find()
(cpymongo.cursor.Cursor object at 0x000001FAF8899160>
>>> db.list_collection.names()
['std_data1', 'std_data']
>>> collection = db.get_collection("std_data1")
>>> collection = db.get_collection("std_data1")
>>> collection = db.get_collection("std_data1")
>>> collection = db.get_collection("std_data1")
>>> corsor = collection.find()
>>>> for each_doc in cursor:
... each_doc
...
each_doc
         .. each_doc
File "<stdin>", line 4
each_doc
         nuentationError: unexpec
>> each_doc
File "<stdin>", line 1
each_doc
           ndentationError: unexpected indent
       nanal 
           .
|id': ObjectId('5fec273960081135839d8c97'), 'name': 'vaibhav', 'prn': '1942207', 'Branch': 'computer'}
|id': ObjectId('5fec273960081135839d8c98'), 'name': 'priya', 'prn': '1942208', 'Branch': 'Mechnical')
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                П
         ndentationError: unexpected indent
           >> each_doc
File "<stdin>", line 1
each_doc
       ndentationError: unexpected indent
>> cursor = collection.find()
>> for each_doc in cursor:
.. each_doc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                П
```