

```
1 import pymongo
2
3 client = pymongo.MongoClient("localhost")
4
5 mydb = client['Company']
6
7 com = mydb.cust
8
9 count = com.count_documents({})
10 print("Total entries is : " , count)
11 print("")
12
13 query = {
14 "firstName":"James", "lastName":"Smith", "age":20,
15 "Address":{"street"Address:"777 Brockton
Avenue", "city":"Abington", "state":"MA", "postalCode":2351},
16 "phoneNumber":[{"type":"home", "number":4661632082},
{"type":"fax", "number":2899829351}],
17 "emailAddress":["jamesS@gamil.com", "SJames@gmail.com"]
18 }
19
20 com.insert_one(query)
21
22 com.insert_many([
23 {"firstName":"Michael", "lastName":"Smith", "age":21,
24 "Address":{"street"Address:"279 Troy Road", "city":"East
Greenbush", "state":"NY", "postalCode":12061},
25 "phoneNumber":[{"type":"home", "number":9808191199},
{"type":"fax", "number":7797374941}],
26 "emailAddress":["MichS@gamil.com", "SMich@gmail.com"]}],
27 {"firstName":"Robert", "lastName":"Smith", "age":22,
28 "Address":{"street"Address:"1400 Farmington
Ave", "city":"Bristol", "state":"CT", "postalCode":6010},
29 "phoneNumber":[{"type":"home", "number":1761266808},
{"type":"fax", "number":9841911399}],
30 "emailAddress":["Robert@gamil.com", "SRob@gmail.com"]}],
31 {"firstName":"Maria", "lastName":"Garcia", "age":22,
32 "Address":{"street"Address:"515 Sawmill Road", "city":"West
Haven", "state":"CT", "postalCode":6516},
33 "phoneNumber":[{"type":"home", "number":8215484894},
{"type":"fax", "number":6754261777}],
34 "emailAddress":["MariaG@gamil.com", "GMaria@gmail.com"]}],
35 {"firstName":"David", "lastName":"Smith", "age":21,
36 "Address":{"street"Address:"30 Memorial
Drive", "city":"Avon", "state":"MA", "postalCode":2322},
37 "phoneNumber":[{"type":"home", "number":1508518145},
{"type":"fax", "number":6778131732}],
38 "emailAddress":["David@gamil.com", "SDavid@gmail.com"]}],
39 {"firstName":"Maria", "lastName":"Rodriguez", "age":20,
40 "Address":{"street"Address:"100 Thruway
Plaza", "city":"Cheektowaga", "state":"NY", "postalCode":14225},
41 "phoneNumber":[{"type":"home", "number":2870577148},
{"type":"fax", "number":1700918899}],
42 "emailAddress":["MariaR@gamil.com", "RMaria@gmail.com"]}],
43 {"firstName":"Mary", "lastName":"Smith", "age":22,
44 "Address":{"street"Address:"180 River
Rd", "city":"Lisbon", "state":"CT", "postalCode":6351},
45 "phoneNumber":[{"type":"home", "number":9806068527},
{"type":"fax", "number":3219935317}],
46 "emailAddress":["Mary@gamil.com", "SMary@gmail.com"]}],
```

```
47 {"firstName":"Maria","lastName":"Hernandez","age":21,
48 "Address":{"street""Address":"540 West
Bypass","city":"Andalusia","state":"AL","postalCode":36420},
49 "phonenumber":[{"type":"home","number":7655200366},
{"type":"fax","number":4381572451}],
50 "emailAddress":["MariaH@gamil.com","HMaria@gmail.com"]}},
51 {"firstName":"Lilly","lastName":"Martinez","age":22,
52 "Address":{"street""Address":"591 Memorial
Dr","city":"Chicopee","state":"MA","postalCode":1020},
53 "phonenumber":[{"type":"home","number":1723748378},{type":"fax","number":3294228998
}],
54 "emailAddress":["Lilly@gamil.com","MLilly@gmail.com"]}},
55 {"firstName":"James","lastName":"Johnson","age":20,
56 "Address":{"street""Address":"30
Catskill","city":"Catskill","state":"NY","postalCode":12414},
57 "phonenumber":[{"type":"home","number":8602583403},
{"type":"fax","number":2270838423}],
58 "emailAddress":["JJJames@gamil.com","JohnJames@gmail.com"]}},
59 {"firstName":"Kamilah","lastName":"Earhart","age":32,
60 "Address":{"street""Address":"297 Grant
Avenue","city":"Auburn","state":"NY","postalCode":13021},
61 "phonenumber":[{"type":"home","number":7360386487},
{"type":"fax","number":8330942524}],
62 "emailAddress":["Kamilah@gamil.com","EKamlish@gmail.com","KamilahEar@gmail,com"]}},
63 {"firstName":"Alise","lastName":"Pickrell","age":29,
64 "Address":{"street""Address":"4133 Veterans
Memorial","city":"Batavia","state":"NY","postalCode":14020},
65 "phonenumber":[{"type":"home","number":8564397599},
{"type":"fax","number":5426189495},{type":"Mobile","number":3314579129}],
66 "emailAddress":["AliseP@gamil.com","PALise@gmail.com"]}},
67 {"firstName":"Leticia","lastName":"Wrobel","age":33,
68 "Address":{"street""Address":"337 Russell
St","city":"Hadley","state":"MA","postalCode":1035},
69 "phonenumber":[{"type":"home","number":1659846658},
{"type":"fax","number":3502899930},{type":"Mobile","number":8437087134}],
70 "emailAddress":["Leticia@gamil.com","WLeticia@gmail.com","Wrobell@gmail,com"]}},
71 {"firstName":"Caridad","lastName":"Kendall","age":34,
72 "Address":{"street""Address":"6265
Brockport","city":"Brockport","state":"NY","postalCode":14420},
73 "phonenumber":[{"type":"home","number":8602583403},
{"type":"fax","number":4326828684}],
74 "emailAddress":["Caridad@gamil.com","CaridadK@gmail.com"]}},
75 {"firstName":"Michele","lastName":"Gault","age":36,
76 "Address":{"street""Address":"5399 W Genessee
St","city":"Camillus","state":"NY","postalCode":13031},
77 "phonenumber":[{"type":"home","number":6125582162},
{"type":"fax","number":9359925521},{type":"Mobile","number":3957610776}],
78 "emailAddress":["MichaelG@gamil.com","GMichele@gmail.com","GaultM@gmail,com"]}},
79 {"firstName":"Azalee","lastName":"Racey","age":31,
80 "Address":{"street""Address":"3191 County rd
10","city":"Canandaigua","state":"NY","postalCode":14424},
81 "phonenumber":[{"type":"home","number":8268801323},
{"type":"fax","number":9568588641},{type":"Mobile","number":7806366159}],
82 "emailAddress":["AzaleeR@gamil.com","RAzalee@gmail.com"]}},
83 {"firstName":"Kathlyn","lastName":"Hackenberg","age":31,
84 "Address":{"street""Address":"20 Soojian
Dr","city":"Leicester","state":"MA","postalCode":1524},
85 "phonenumber":[{"type":"home","number":4131667434},
{"type":"fax","number":4051166104}],
86 "emailAddress":["Kathlyn@gamil.com","HKathlyn@gmail.com"]}},
```

```
87 {"firstName":"Edie","lastName":"Burstein","age":38,
88 "Address":{"street""Address":"30
Catskill","city":"Catskill","state":"NY","postalCode":12414},
89 "phonenumber":[{"type":"home","number":2601886547},
{"type":"fax","number":2999933858}],
90 "emailAddress":["Edie@gamil.com","BEdie@gmail.com","BursteinE@gmail,com"]}},
91 {"firstName":"Will","lastName":"Strout","age":36,
92 "Address":{"street""Address":"11 Jungle
Road","city":"Leominster","state":"MA","postalCode":1453},
93 "phonenumber":[{"type":"home","number":9764636612},
{"type":"fax","number":8685337904},{type":"Mobile","number":9809039510}],
94 "emailAddress":["Will@gamil.com","SWill@gmail.com"]}},
95 {"firstName":"Cesar","lastName":"Bannon","age":34,
96 "Address":{"street""Address":"161 Centereach
Mall","city":"Centereach","state":"NY","postalCode":11720},
97 "phonenumber":[{"type":"home","number":8803053048},
{"type":"fax","number":8337163141},{type":"Mobile","number":9735653616}],
98 "emailAddress":["Cesar@gamil.com","BCesar@gmail.com"]}},
99 {"firstName":"Hanna","lastName":"Voliva","age":30,
100 "Address":{"street""Address":"780
Lynnway","city":"Lynn","state":"MA","postalCode":1905},
101 "phonenumber":[{"type":"home","number":4041954879},
{"type":"fax","number":2490539545}],
102 "emailAddress":["Hanna@gamil.com","VHanna@gmail.com","VolivaHanna@gmail,com"]}},
103 {"firstName":"Yuonne","lastName":"Gingerich","age":22,
104 "Address":{"street""Address":"3018 East Ave","city":"Central
Square","state":"NY","postalCode":13036},
105 "phonenumber":[{"type":"home","number":2990731778},
{"type":"fax","number":4631531140},{type":"Mobile","number":8829936546}],
106 "emailAddress":["Yuonne@gamil.com","GYuonne@gmail.com"]}},
107 {"firstName":"Jackie","lastName":"Wolfenbarger","age":22,
108 "Address":{"street""Address":"100 Thruway
Plaza","city":"Cheektowaga","state":"NY","postalCode":14225},
109 "phonenumber":[{"type":"home","number":6822716568},
{"type":"fax","number":7965807774}],
110 "emailAddress":["Jackie@gamil.com","WJackie@gmail.com"]}},
111 ])
112 print("")
113
114 print("number of entries after insertion")
115 count = com.count_documents({})
116 print("Total entries : " , count)
117
118 #   increase "age"
119 print("increase age")
120 print(com.find_one({"firstName":"Michael","lastName":"Smith"}))
121 com.update_one({"firstName":"Michael","lastName":"Smith"},{"$inc":{"age":2}})
122 print(com.find_one({"firstName":"Michael","lastName":"Smith"}))
123 print("")
124 #for record in com.find({'S_id': 'S112'}):
125 #   print(record)
126
127 #   push emailAddress
128 print("push emailaddress")
129 com.update_one({"firstName":"Michael","lastName":"Smith"},{"$push":{"emailAddress":
{"$each":["SmithMich@gmail.com"]}}})
130 print(com.find_one({"firstName":"Michael","lastName":"Smith"}))
131 print("")
132
133 #   pop emailAddress
```

```
134 print("pop emailaddress")
135 com.update_one({"firstName":"Michael","lastName":"Smith"}, {"$pop":
{"emailAddress":-1}})
136 print(com.find_one({"firstName":"Michael","lastName":"Smith"}))
137 print("")
138
139 #      updating the "Address"
140 print("updating the Address")
141 com.update_one({"firstName":"Michael","lastName":"Smith"}, {"$set":{"Address":
{"state":"CT","Pincode":4123}}})
142 print(com.find_one({"firstName":"Michael","lastName":"Smith"}))
143 print("")
144
145 #      updating multiple for age
146 print("updating multiple for age")
147 for record in com.find({"lastName":"Smith"}):
148     print(record)
149 com.update_many({"lastName":"Smith"}, {"$set":{"age":"28"}})
150 print("")
151 for record in com.find({"lastName":"Smith"}):
152     print(record)
153 print("")
154
155
156 #      greater then
157 print("greater then")
158 for record in com.find({"age":{"$gt":28}}):
159     print(record)
160 print("")
161
162 #      Sorting in decending order
163 print("Sorting in decending order")
164 doc = com.find().sort("firstName",-1)
165 for x in doc:
166     print(x)
167 print("")
168
169 #      Sorting in accending
170 doc = com.find().sort("S_name",1)
171 for x in doc:
172     print(x)
173 print("")
174
175
176 #      Name starting with M
177 print("Name starting with M")
178 for x in com.find({"firstName":{"$regex":"^M"}}):
179     print(x)
180 print("")
181
182
183 #      delete multiple entries
184 print("delete multiple entries having lastName Smith")
185 count = com.count_documents({})
186 print("Total entries : " , count)
187 print("")
188 com.delete_many({"lastName":"Smith"})
189 count = com.count_documents({})
190 print("Total entries : " , count)
191 print("")
```

```
192 |
193 | #      Drouping Colleccion
194 | #com.drop()
195 |
196 |
```

```
File Edit Selection View Go Run Terminal Help company_MongoConnectivity.py - Visual Studio Code
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL 1: Python
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\kalar> & python "f:/T9/BDA/New folder/company_MongoConnectivity.py"
Total entries is : 0

Traceback (most recent call last):
  File "f:/T9/BDA/New folder/company_MongoConnectivity.py", line 20, in <module>
    com.insert_one(query)
  File "C:\Users\kalar\AppData\Local\Programs\Python\Python39\lib\site-packages\pymongo\collection.py", line 698, in insert_one
    self._insert(document,
  File "C:\Users\kalar\AppData\Local\Programs\Python\Python39\lib\site-packages\pymongo\collection.py", line 613, in _insert
    return self._insert_one(
  File "C:\Users\kalar\AppData\Local\Programs\Python\Python39\lib\site-packages\pymongo\collection.py", line 602, in _insert_one
    self._database.client._retryable_write(
  File "C:\Users\kalar\AppData\Local\Programs\Python\Python39\lib\site-packages\pymongo\mongo_client.py", line 1498, in _retryable_write
    return self._retry_with_session(retryable, func, s, None)
  File "C:\Users\kalar\AppData\Local\Programs\Python\Python39\lib\site-packages\pymongo\mongo_client.py", line 1384, in _retry_with_session
    return self._retry_internal(retryable, func, session, bulk)
  File "C:\Users\kalar\AppData\Local\Programs\Python\Python39\lib\site-packages\pymongo\mongo_client.py", line 1416, in _retry_internal
    return func(session, sock_info, retryable)
  File "C:\Users\kalar\AppData\Local\Programs\Python\Python39\lib\site-packages\pymongo\collection.py", line 600, in _insert_command
    _check_write_command_response(result)
  File "C:\Users\kalar\AppData\Local\Programs\Python\Python39\lib\site-packages\pymongo\helpers.py", line 226, in _check_write_command_response
    _raise_last_write_error(write_errors)
  File "C:\Users\kalar\AppData\Local\Programs\Python\Python39\lib\site-packages\pymongo\helpers.py", line 208, in _raise_last_write_error
    raise WriteError(error.get("errmsg"), error.get("code"), error)
pymongo.errors.WriteError: db already exists with different case already have: [Company] trying to create [company], full error: {'index': 0, 'code': 13297, 'errmsg': 'db already exi
sts with different case already have: [Company] trying to create [company]'}
PS C:\Users\kalar> & python "f:/T9/BDA/New folder/company_MongoConnectivity.py"
Total entries is : 0

number of entries after insertion
Total entries : 23

Python 3.9.1 64-bit 0 0 0 Ln 20, Col 22 Spaces: 2 UTF-8 CRLF Python 5:05 PM 6/5/2021
```



```
File Edit Selection View Go Run Terminal Help company_MongoConnectivity.py - Visual Studio Code

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL 1: Python

number of entries after insertion
Total entries : 23
increase age
{'_id': ObjectId('60bb610d3b84f50db0ee4a86'), 'firstName': 'Michael', 'lastName': 'Smith', 'age': 21, 'Address': {'streetAddress': '279 Troy Road', 'city': 'East Greenbush', 'state': 'NY', 'postalCode': 12061}, 'phoneNumber': [{'type': 'home', 'number': 9808191199}, {'type': 'fax', 'number': 7797374941}], 'emailAddress': ['MichS@gamil.com', 'SMich@gmail.com']}
{'_id': ObjectId('60bb610d3b84f50db0ee4a86'), 'firstName': 'Michael', 'lastName': 'Smith', 'age': 23, 'Address': {'streetAddress': '279 Troy Road', 'city': 'East Greenbush', 'state': 'NY', 'postalCode': 12061}, 'phoneNumber': [{'type': 'home', 'number': 9808191199}, {'type': 'fax', 'number': 7797374941}], 'emailAddress': ['MichS@gamil.com', 'SMich@gmail.com']}

push emailAddress
{'_id': ObjectId('60bb610d3b84f50db0ee4a86'), 'firstName': 'Michael', 'lastName': 'Smith', 'age': 23, 'Address': {'streetAddress': '279 Troy Road', 'city': 'East Greenbush', 'state': 'NY', 'postalCode': 12061}, 'phoneNumber': [{'type': 'home', 'number': 9808191199}, {'type': 'fax', 'number': 7797374941}], 'emailAddress': ['MichS@gamil.com', 'SMich@gmail.com', 'SMithMich@gmail.com']}

pop emailAddress
{'_id': ObjectId('60bb610d3b84f50db0ee4a86'), 'firstName': 'Michael', 'lastName': 'Smith', 'age': 23, 'Address': {'streetAddress': '279 Troy Road', 'city': 'East Greenbush', 'state': 'NY', 'postalCode': 12061}, 'phoneNumber': [{'type': 'home', 'number': 9808191199}, {'type': 'fax', 'number': 7797374941}], 'emailAddress': ['SMich@gmail.com', 'SmithMich@gmail.com']}

updating the Address
{'_id': ObjectId('60bb610d3b84f50db0ee4a86'), 'firstName': 'Michael', 'lastName': 'Smith', 'age': 23, 'Address': {'state': 'CT', 'Pincode': 4123}, 'phoneNumber': [{'type': 'home', 'number': 9808191199}, {'type': 'fax', 'number': 7797374941}], 'emailAddress': ['SMich@gmail.com', 'SmithMich@gmail.com']}

updating multiple for age
{'_id': ObjectId('60bb610d3b84f50db0ee4a85'), 'firstName': 'James', 'lastName': 'Smith', 'age': 20, 'Address': {'streetAddress': '777 Brockton Avenue', 'city': 'Abington', 'state': 'MA', 'postalCode': 2351}, 'phoneNumber': [{'type': 'home', 'number': 4661632082}, {'type': 'fax', 'number': 2899829351}], 'emailAddress': ['jamesS@gamil.com', 'SJJames@gmail.com']}
{'_id': ObjectId('60bb610d3b84f50db0ee4a86'), 'firstName': 'Michael', 'lastName': 'Smith', 'age': 23, 'Address': {'state': 'CT', 'Pincode': 4123}, 'phoneNumber': [{'type': 'home', 'number': 9808191199}, {'type': 'fax', 'number': 7797374941}], 'emailAddress': ['SMich@gmail.com', 'SmithMich@gmail.com']}
{'_id': ObjectId('60bb610d3b84f50db0ee4a87'), 'firstName': 'Robert', 'lastName': 'Smith', 'age': 22, 'Address': {'streetAddress': '1400 Farmington Ave', 'city': 'Bristol', 'state': 'CT', 'postalCode': 6010}, 'phoneNumber': [{'type': 'home', 'number': 1761266808}, {'type': 'fax', 'number': 9841911399}], 'emailAddress': ['Robert@gamil.com', 'SRob@gmail.com']}
{'_id': ObjectId('60bb610d3b84f50db0ee4a89'), 'firstName': 'David', 'lastName': 'Smith', 'age': 21, 'Address': {'streetAddress': '30 Memorial Drive', 'city': 'Avon', 'state': 'MA', 'postalCode': 2322}, 'phoneNumber': [{'type': 'home', 'number': 1508518145}, {'type': 'fax', 'number': 6778131732}], 'emailAddress': ['David@gamil.com', 'SDavid@gmail.com']}
{'_id': ObjectId('60bb610d3b84f50db0ee4a8b'), 'firstName': 'Mary', 'lastName': 'Smith', 'age': 22, 'Address': {'streetAddress': '180 River Rd', 'city': 'Lisbon', 'state': 'CT', 'postalCode': 6351}, 'phoneNumber': [{'type': 'home', 'number': 9806068527}, {'type': 'fax', 'number': 3219935317}], 'emailAddress': ['Mary@gamil.com', 'SMary@gmail.com']}

{'_id': ObjectId('60bb610d3b84f50db0ee4a85'), 'firstName': 'James', 'lastName': 'Smith', 'age': 28, 'Address': {'streetAddress': '777 Brockton Avenue', 'city': 'Abington', 'state': 'MA', 'postalCode': 2351}, 'phoneNumber': [{'type': 'home', 'number': 4661632082}, {'type': 'fax', 'number': 2899829351}], 'emailAddress': ['jamesS@gamil.com', 'SJJames@gmail.com']}
{'_id': ObjectId('60bb610d3b84f50db0ee4a86'), 'firstName': 'Michael', 'lastName': 'Smith', 'age': 28, 'Address': {'state': 'CT', 'Pincode': 4123}, 'phoneNumber': [{'type': 'home',
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PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL 1: Python

{'_id': ObjectId('60bb610d3b84f50db0ee4a85'), 'firstName': 'James', 'lastName': 'Smith', 'age': '28', 'Address': {'streetAddress': '777 Brockton Avenue', 'city': 'Abington', 'state': 'MA', 'postalCode': 2351}, 'phoneNumber': [{'type': 'home', 'number': 4661632082}, {'type': 'fax', 'number': 2899829351}], 'emailAddress': ['james5@gamil.com', 'SJames@gmail.com']}
{'_id': ObjectId('60bb610d3b84f50db0ee4a86'), 'firstName': 'Michael', 'lastName': 'Smith', 'age': '28', 'Address': {'state': 'CT', 'Pincode': 4123}, 'phoneNumber': [{'type': 'home', 'number': 9808191199}, {'type': 'fax', 'number': 7797374941}], 'emailAddress': ['SMich@gmail.com', 'SmithMich@gmail.com']}
{'_id': ObjectId('60bb610d3b84f50db0ee4a87'), 'firstName': 'Robert', 'lastName': 'Smith', 'age': '28', 'Address': {'streetAddress': '1400 Farmington Ave', 'city': 'Bristol', 'state': 'CT', 'postalCode': 6010}, 'phoneNumber': [{'type': 'home', 'number': 1761266808}, {'type': 'fax', 'number': 9841911399}], 'emailAddress': ['Robert@gamil.com', 'SRob@gmail.com']}
{'_id': ObjectId('60bb610d3b84f50db0ee4a89'), 'firstName': 'David', 'lastName': 'Smith', 'age': '28', 'Address': {'streetAddress': '30 Memorial Drive', 'city': 'Avon', 'state': 'MA', 'postalCode': 2322}, 'phoneNumber': [{'type': 'home', 'number': 1508518145}, {'type': 'fax', 'number': 6778131732}], 'emailAddress': ['David@gamil.com', 'SDavid@gmail.com']}
{'_id': ObjectId('60bb610d3b84f50db0ee4a8b'), 'firstName': 'Mary', 'lastName': 'Smith', 'age': '28', 'Address': {'streetAddress': '180 River Rd', 'city': 'Lisbon', 'state': 'CT', 'postalCode': 6351}, 'phoneNumber': [{'type': 'home', 'number': 9806068527}, {'type': 'fax', 'number': 3219935317}], 'emailAddress': ['Mary@gamil.com', 'SMary@gmail.com']}

greater then
{'_id': ObjectId('60bb610d3b84f50db0ee4a8f'), 'firstName': 'Kamilah', 'lastName': 'Earhart', 'age': 32, 'Address': {'streetAddress': '297 Grant Avenue', 'city': 'Auburn', 'state': 'NY', 'postalCode': 13021}, 'phoneNumber': [{'type': 'home', 'number': 7360386487}, {'type': 'fax', 'number': 8330942524}], 'emailAddress': ['Kamilah@gamil.com', 'EKamlish@gmail.com', 'KamilahEar@gmail.com']}
{'_id': ObjectId('60bb610d3b84f50db0ee4a90'), 'firstName': 'Alise', 'lastName': 'Pickrell', 'age': 29, 'Address': {'streetAddress': '4133 Veterans Memorial', 'city': 'Batavia', 'state': 'NY', 'postalCode': 14020}, 'phoneNumber': [{'type': 'home', 'number': 8564397599}, {'type': 'fax', 'number': 5426189495}, {'type': 'Mobile', 'number': 3314579129}], 'emailAddress': ['AliseP@gamil.com', 'PALise@gmail.com']}
{'_id': ObjectId('60bb610d3b84f50db0ee4a91'), 'firstName': 'Leticia', 'lastName': 'Wrobel', 'age': 33, 'Address': {'streetAddress': '337 Russell St', 'city': 'Hadley', 'state': 'MA', 'postalCode': 1035}, 'phoneNumber': [{'type': 'home', 'number': 1659846658}, {'type': 'fax', 'number': 3502899930}, {'type': 'Mobile', 'number': 8437087134}], 'emailAddress': ['Leticia@gamil.com', 'Leticia@gmail.com', 'Wrobell@gmail.com']}
{'_id': ObjectId('60bb610d3b84f50db0ee4a92'), 'firstName': 'Caridad', 'lastName': 'Kendall', 'age': 34, 'Address': {'streetAddress': '6265 Brockport', 'city': 'Brockport', 'state': 'NY', 'postalCode': 14420}, 'phoneNumber': [{'type': 'home', 'number': 8602583403}, {'type': 'fax', 'number': 4326828684}], 'emailAddress': ['Caridad@gamil.com', 'CaridadK@gmail.com']}
{'_id': ObjectId('60bb610d3b84f50db0ee4a93'), 'firstName': 'Michele', 'lastName': 'Gault', 'age': 36, 'Address': {'streetAddress': '5399 W Genesee St', 'city': 'Camillus', 'state': 'NY', 'postalCode': 13031}, 'phoneNumber': [{'type': 'home', 'number': 6125582162}, {'type': 'fax', 'number': 9359925521}, {'type': 'Mobile', 'number': 3957610776}], 'emailAddress': ['Michael@gamil.com', 'GMichele@gmail.com', 'GaultM@gmail.com']}
{'_id': ObjectId('60bb610d3b84f50db0ee4a94'), 'firstName': 'Azalee', 'lastName': 'Racey', 'age': 31, 'Address': {'streetAddress': '3191 County rd 10', 'city': 'Canandaigua', 'state': 'NY', 'postalCode': 14424}, 'phoneNumber': [{'type': 'home', 'number': 8268801323}, {'type': 'fax', 'number': 9568588641}, {'type': 'Mobile', 'number': 7806366159}], 'emailAddress': ['AzaleeR@gamil.com', 'RAzalee@gmail.com']}
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Python 3.9.1 64-bit 0 0 0 Ln 20, Col 22 Spaces 2 UTF-8 CRLF Python 5:06 PM 6/5/2021
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File Edit Selection View Go Run Terminal Help company_MongoConnectivity.py - Visual Studio Code

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL 1: Python

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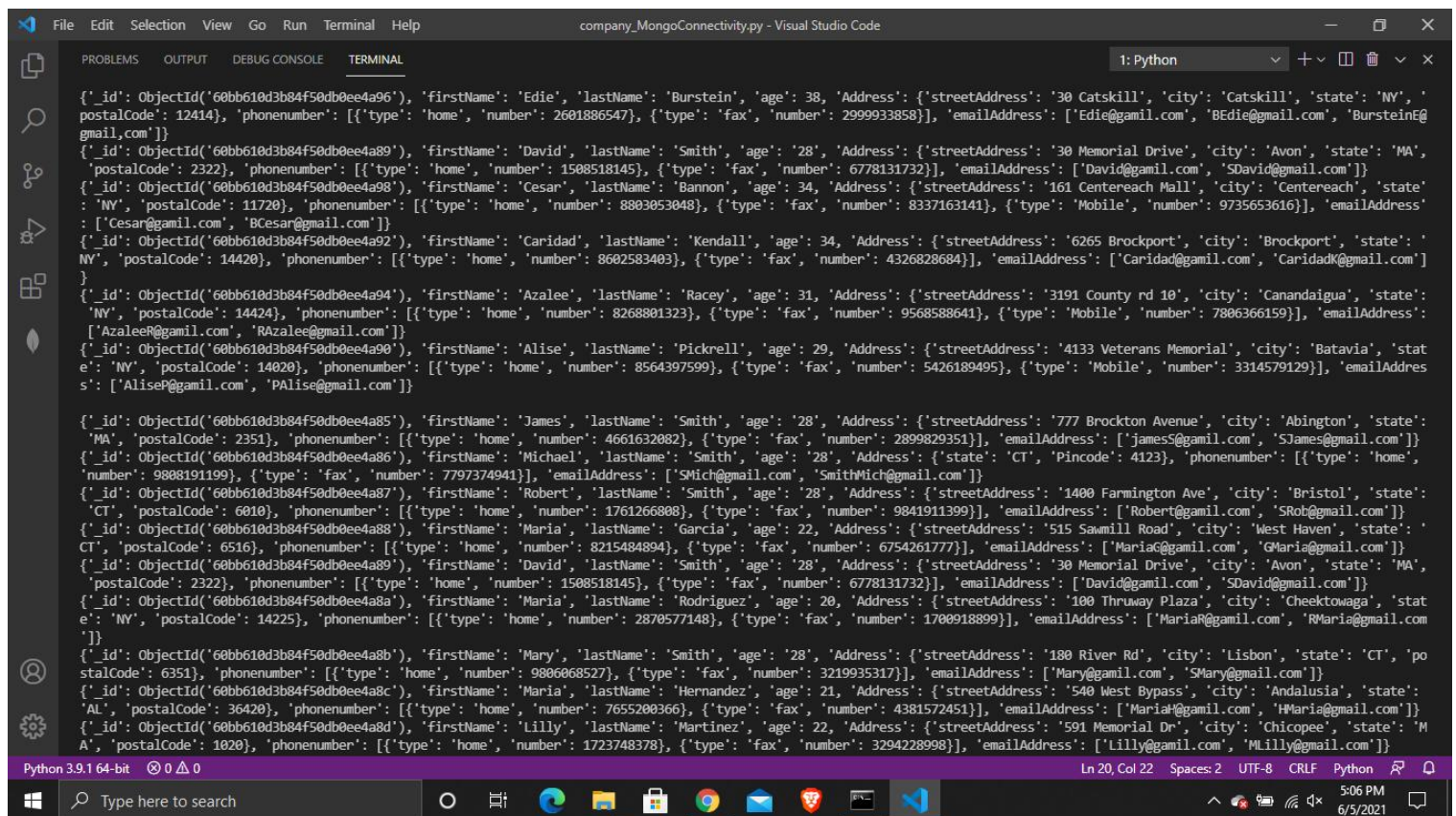
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Python 3.9.1 64-bit 0 0 Ln 20, Col 22 Spaces 2 UTF-8 CRLF Python 5:06 PM 6/5/2021

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File Edit Selection View Go Run Terminal Help
company_MongoConnectivity.py - Visual Studio Code

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
1: Python

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File Edit Selection View Go Run Terminal Help company_MongoConnectivity.py - Visual Studio Code

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL 1: Python

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Python 3.9.1 64-bit 0 0 Ln 20, Col 22 Spaces 2 UTF-8 CRLF Python 5:06 PM 6/5/2021
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File Edit Selection View Go Run Terminal Help company_MongoConnectivity.py - Visual Studio Code

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL 1: Python

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Name starting with M
{'_id': ObjectId('60bb610d3b84f50db0ee4a86'), 'firstName': 'Michael', 'lastName': 'Smith', 'age': 28, 'Address': {'state': 'CT', 'Pincode': 4123}, 'phoneNumber': [{'type': 'home', 'number': 9808191199}, {'type': 'fax', 'number': 7797374941}], 'emailAddress': ['SMich@gmail.com', 'SmithMich@gmail.com']}
{'_id': ObjectId('60bb610d3b84f50db0ee4a88'), 'firstName': 'Maria', 'lastName': 'Garcia', 'age': 22, 'Address': {'streetAddress': '515 Sawmill Road', 'city': 'West Haven', 'state': 'CT', 'postalCode': 6516}, 'phoneNumber': [{'type': 'home', 'number': 8215484894}, {'type': 'fax', 'number': 6754261777}], 'emailAddress': ['MariaG@gamil.com', 'GMaria@gmail.com']}
{'_id': ObjectId('60bb610d3b84f50db0ee4a8a'), 'firstName': 'Maria', 'lastName': 'Rodriguez', 'age': 20, 'Address': {'streetAddress': '100 Thruway Plaza', 'city': 'Cheektowaga', 'state': 'NY', 'postalCode': 14225}, 'phoneNumber': [{'type': 'home', 'number': 2870577148}, {'type': 'fax', 'number': 1700918899}], 'emailAddress': ['MariaR@gamil.com', 'RMaria@gmail.com']}
{'_id': ObjectId('60bb610d3b84f50db0ee4a8b'), 'firstName': 'Mary', 'lastName': 'Smith', 'age': 28, 'Address': {'streetAddress': '180 River Rd', 'city': 'Lisbon', 'state': 'CT', 'postalCode': 6351}, 'phoneNumber': [{'type': 'home', 'number': 9806068527}, {'type': 'fax', 'number': 3219935317}], 'emailAddress': ['Mary@gamil.com', 'SMary@gmail.com']}
{'_id': ObjectId('60bb610d3b84f50db0ee4a8c'), 'firstName': 'Maria', 'lastName': 'Hernandez', 'age': 21, 'Address': {'streetAddress': '540 West Bypass', 'city': 'Andalusia', 'state': 'AL', 'postalCode': 36420}, 'phoneNumber': [{'type': 'home', 'number': 7655200366}, {'type': 'fax', 'number': 4381572451}], 'emailAddress': ['MariaH@gamil.com', 'HMaria@gmail.com']}
{'_id': ObjectId('60bb610d3b84f50db0ee4a93'), 'firstName': 'Michele', 'lastName': 'Gault', 'age': 36, 'Address': {'streetAddress': '5399 W Genesee St', 'city': 'Camillus', 'state': 'NY', 'postalCode': 13031}, 'phoneNumber': [{'type': 'home', 'number': 6125582162}, {'type': 'fax', 'number': 9359925521}, {'type': 'Mobile', 'number': 3957610776}], 'emailAddress': ['MichaelG@gamil.com', 'GMichele@gmail.com', 'GaultM@gmail.com']}

delete multiple entries having lastName Smith

Python 3.9.1 64-bit 0 0 0 Ln 20, Col 22 Spaces: 2 UTF-8 CRLF Python 5:06 PM 6/5/2021
```



```
File Edit Selection View Go Run Terminal Help company_MongoConnectivity.py - Visual Studio Code

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL 1: Python

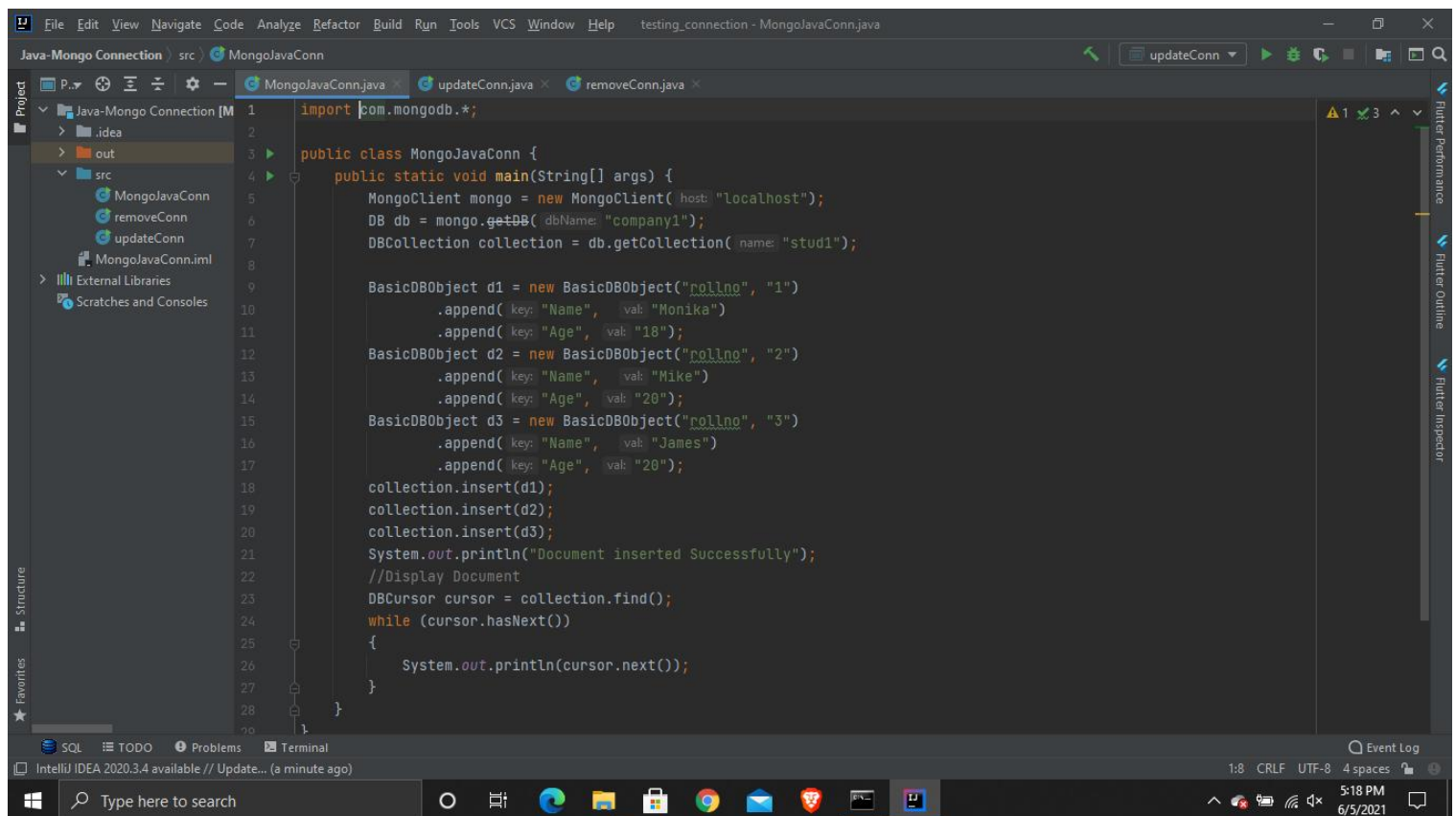
l@gmail.com', 'Swill@gmail.com']]
{'_id': ObjectId('60bb610d3b84f50db0ee4a98'), 'firstName': 'Cesar', 'lastName': 'Bannon', 'age': 34, 'Address': {'streetAddress': '161 Centereach Mall', 'city': 'Centereach', 'state': 'NY', 'postalCode': 11720}, 'phoneNumber': [{'type': 'home', 'number': 8803053048}, {'type': 'fax', 'number': 8337163141}, {'type': 'Mobile', 'number': 9735653616}], 'emailAddress': ['Cesar@gmail.com', 'BCesar@gmail.com']}
{'_id': ObjectId('60bb610d3b84f50db0ee4a99'), 'firstName': 'Hanna', 'lastName': 'Voliva', 'age': 30, 'Address': {'streetAddress': '780 Lynnway', 'city': 'Lynn', 'state': 'MA', 'postalCode': 1905}, 'phoneNumber': [{'type': 'home', 'number': 4041954879}, {'type': 'fax', 'number': 2490539545}], 'emailAddress': ['Hanna@gmail.com', 'VHanna@gmail.com', 'VolivaHanna@gmail.com']}
{'_id': ObjectId('60bb610d3b84f50db0ee4a9a'), 'firstName': 'Yvonne', 'lastName': 'Gingerich', 'age': 22, 'Address': {'streetAddress': '3018 East Ave', 'city': 'Central Square', 'state': 'NY', 'postalCode': 13036}, 'phoneNumber': [{'type': 'home', 'number': 2990731778}, {'type': 'fax', 'number': 4631531140}, {'type': 'Mobile', 'number': 8829936546}], 'emailAddress': ['Yvonne@gmail.com', 'GYvonne@gmail.com']}
{'_id': ObjectId('60bb610d3b84f50db0ee4a9b'), 'firstName': 'Jackie', 'lastName': 'Wolfenbarger', 'age': 22, 'Address': {'streetAddress': '100 Thruway Plaza', 'city': 'Cheektowaga', 'state': 'NY', 'postalCode': 14225}, 'phoneNumber': [{'type': 'home', 'number': 6822716568}, {'type': 'fax', 'number': 7965807774}], 'emailAddress': ['Jackie@gmail.com', 'WJackie@gmail.com']}

Name starting with M
{'_id': ObjectId('60bb610d3b84f50db0ee4a86'), 'firstName': 'Michael', 'lastName': 'Smith', 'age': '28', 'Address': {'state': 'CT', 'Pincode': 4123}, 'phoneNumber': [{'type': 'home', 'number': 9808191199}, {'type': 'fax', 'number': 7797374941}], 'emailAddress': ['SMich@gmail.com', 'SmithMich@gmail.com']}
{'_id': ObjectId('60bb610d3b84f50db0ee4a88'), 'firstName': 'Maria', 'lastName': 'Garcia', 'age': 22, 'Address': {'streetAddress': '515 Sawmill Road', 'city': 'West Haven', 'state': 'CT', 'postalCode': 6516}, 'phoneNumber': [{'type': 'home', 'number': 8215484894}, {'type': 'fax', 'number': 6754261777}], 'emailAddress': ['Maria@gmail.com', 'GMaria@gmail.com']}
{'_id': ObjectId('60bb610d3b84f50db0ee4a8a'), 'firstName': 'Maria', 'lastName': 'Rodriguez', 'age': 20, 'Address': {'streetAddress': '100 Thruway Plaza', 'city': 'Cheektowaga', 'state': 'NY', 'postalCode': 14225}, 'phoneNumber': [{'type': 'home', 'number': 2870577148}, {'type': 'fax', 'number': 1700918899}], 'emailAddress': ['MariaR@gmail.com', 'RMaria@gmail.com']}
{'_id': ObjectId('60bb610d3b84f50db0ee4a8b'), 'firstName': 'Mary', 'lastName': 'Smith', 'age': '28', 'Address': {'streetAddress': '100 River Rd', 'city': 'Lisbon', 'state': 'CT', 'postalCode': 6351}, 'phoneNumber': [{'type': 'home', 'number': 9806068527}, {'type': 'fax', 'number': 3219935317}], 'emailAddress': ['Mary@gmail.com', 'SMary@gmail.com']}
{'_id': ObjectId('60bb610d3b84f50db0ee4a8c'), 'firstName': 'Maria', 'lastName': 'Hernandez', 'age': 21, 'Address': {'streetAddress': '540 West Bypass', 'city': 'Andalusia', 'state': 'AL', 'postalCode': 36420}, 'phoneNumber': [{'type': 'home', 'number': 7655200366}, {'type': 'fax', 'number': 4381572451}], 'emailAddress': ['MariaH@gmail.com', 'HMaria@gmail.com']}
{'_id': ObjectId('60bb610d3b84f50db0ee4a93'), 'firstName': 'Michele', 'lastName': 'Gault', 'age': 36, 'Address': {'streetAddress': '5399 W Genesee St', 'city': 'Camillus', 'state': 'NY', 'postalCode': 13031}, 'phoneNumber': [{'type': 'home', 'number': 6125582162}, {'type': 'fax', 'number': 9359925521}, {'type': 'Mobile', 'number': 3957610776}], 'emailAddress': ['Michael@gmail.com', 'GMichele@gmail.com', 'GaultM@gmail.com']}

delete multiple entries having lastName Smith
Total entries : 23

Total entries : 18

PS C:\Users\kalar>
```



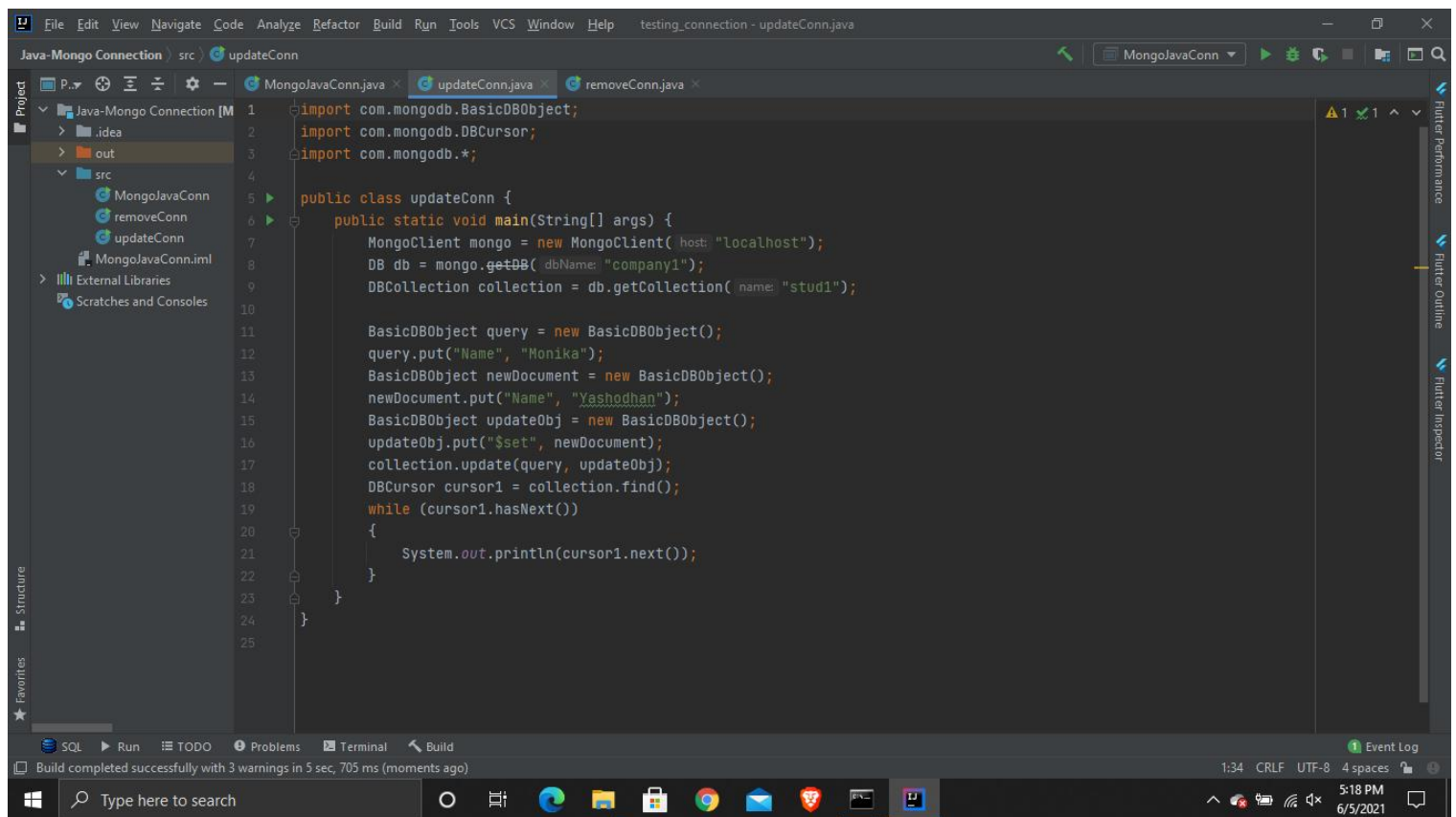
```
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help testing_connection - MongoJavaConn.java

Java-Mongo Connection src MongoJavaConn
MongoJavaConn.java x updateConn.java x removeConn.java x

Run: MongoJavaConn x
C:\Users\kalar\.jdk\openjdk-15.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2020.3.2\lib\idea_rt
.jar=59561:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2020.3.2\bin" -Dfile.encoding=UTF-8 -classpath "F:\T9\BDA\Java-Mongo
Connection\out\production\MongoJavaConn;F:\T9\BDA\Files\mongo-java-driver-3.12.6.jar" MongoJavaConn
Jun 05, 2021 5:18:38 PM com.mongodb.diagnostics.logging.JULLogger log
INFO: Cluster created with settings {hosts=[localhost:27017], mode=SINGLE, requiredClusterType=UNKNOWN, serverSelectionTimeout='30000 ms',
maxWaitQueueSize=500}
Jun 05, 2021 5:18:39 PM com.mongodb.diagnostics.logging.JULLogger log
INFO: Cluster description not yet available. Waiting for 30000 ms before timing out
Jun 05, 2021 5:18:39 PM com.mongodb.diagnostics.logging.JULLogger log
INFO: Opened connection [connectionId{localValue:1, serverValue:12}] to localhost:27017
Jun 05, 2021 5:18:39 PM com.mongodb.diagnostics.logging.JULLogger log
INFO: Monitor thread successfully connected to server with description ServerDescription{address=localhost:27017, type=STANDALONE, state=CONNECTED,
ok=true, version=ServerVersion{versionList=[4, 9, 0]}, minWireVersion=0, maxWireVersion=12, maxDocumentSize=16777216, logicalSessionTimeoutMinutes=30,
roundTripTimeNanos=6468900}
Jun 05, 2021 5:18:39 PM com.mongodb.diagnostics.logging.JULLogger log
INFO: Opened connection [connectionId{localValue:2, serverValue:13}] to localhost:27017
Document inserted Successfully
{"_id": {"$oid": "60bb6497017ad92051bdc382"}, "rollno": "1", "Name": "Monika", "Age": "18"}
{"_id": {"$oid": "60bb6497017ad92051bdc383"}, "rollno": "2", "Name": "Mike", "Age": "20"}
{"_id": {"$oid": "60bb6497017ad92051bdc384"}, "rollno": "3", "Name": "James", "Age": "20"}

Process finished with exit code 0
|

SQL Run TODO Problems Terminal Build
Build completed successfully with 3 warnings in 5 sec, 705 ms (moments ago)
18:1 CRLF UTF-8 4 spaces
Type here to search
5:18 PM
6/5/2021
```



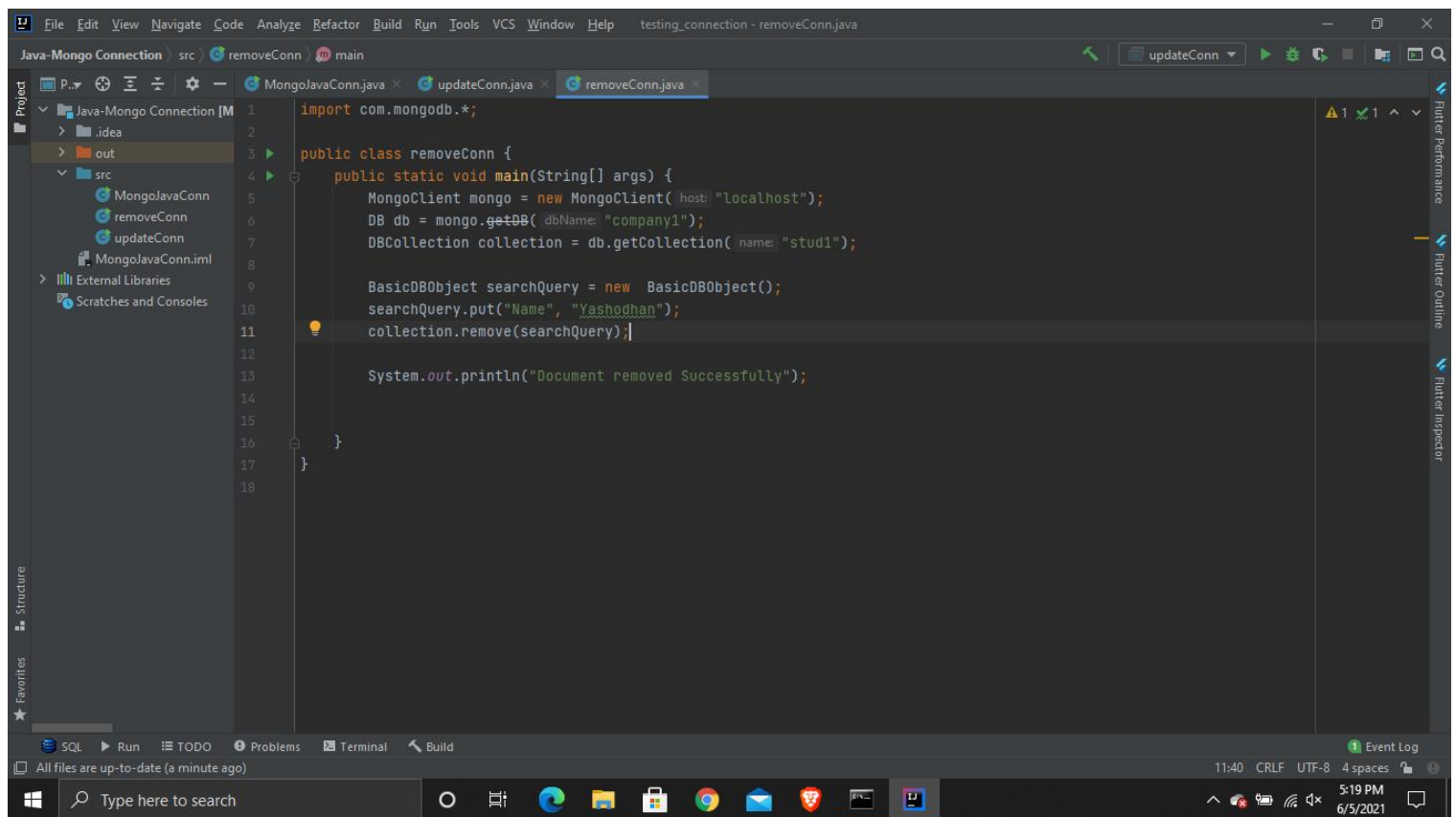
```
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help testing_connection - updateConn.java

Java-Mongo Connection src updateConn
MongoJavaConn.java x updateConn.java x removeConn.java x

Run: updateConn x
C:\Users\kalar\.jdk\openjdk-15.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2020.3.2\lib\idea_rt
.jar=59570:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2020.3.2\bin" -Dfile.encoding=UTF-8 -classpath "F:\T9\BDA\Java-Mongo
Connection\out\production\MongoJavaConn;F:\T9\BDA\Files\mongo-java-driver-3.12.6.jar" updateConn
Jun 05, 2021 5:19:03 PM com.mongodb.diagnostics.logging.JULLogger log
INFO: Cluster created with settings {hosts=[localhost:27017], mode=SINGLE, requiredClusterType=UNKNOWN, serverSelectionTimeout='30000 ms',
maxWaitQueueSize=500}
Jun 05, 2021 5:19:04 PM com.mongodb.diagnostics.logging.JULLogger log
INFO: Cluster description not yet available. Waiting for 30000 ms before timing out
Jun 05, 2021 5:19:04 PM com.mongodb.diagnostics.logging.JULLogger log
INFO: Opened connection [connectionId{localValue:1, serverValue:14}] to localhost:27017
Jun 05, 2021 5:19:04 PM com.mongodb.diagnostics.logging.JULLogger log
INFO: Monitor thread successfully connected to server with description ServerDescription{address=localhost:27017, type=STANDALONE, state=CONNECTED,
ok=true, version=ServerVersion{versionList=[4, 9, 0]}, minWireVersion=0, maxWireVersion=12, maxDocumentSize=16777216, logicalSessionTimeoutMinutes=30,
roundTripTimeNanos=10058900}
Jun 05, 2021 5:19:04 PM com.mongodb.diagnostics.logging.JULLogger log
INFO: Opened connection [connectionId{localValue:2, serverValue:15}] to localhost:27017
{"_id": {"$oid": "60bb6497017ad92051bdc382"}, "rollno": "1", "Name": "Yashodhan", "Age": "18"}
{"_id": {"$oid": "60bb6497017ad92051bdc383"}, "rollno": "2", "Name": "Mike", "Age": "20"}
{"_id": {"$oid": "60bb6497017ad92051bdc384"}, "rollno": "3", "Name": "James", "Age": "20"}

Process finished with exit code 0

SQL Run TODO Problems Terminal Build
All files are up-to-date (moments ago)
1:34 CRLF UTF-8 4 spaces
5:19 PM 6/5/2021
```

The screenshot shows the IntelliJ IDEA IDE interface. The top menu bar includes File, Edit, View, Navigate, Code, Analyze, Refactor, Build, Run, Tools, VCS, Window, and Help. The title bar indicates the current file is 'testing_connection - removeConn.java'. The 'Project' tool window on the left shows the project structure with 'src' containing 'removeConn' and 'main'. The 'Run' tool window is active, displaying the execution of 'removeConn'. The console output shows the following sequence of events:

```
C:\Users\kalar\.jdk\openjdk-15.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2020.3.2\lib\idea_rt.jar=59583:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2020.3.2\bin" -Dfile.encoding=UTF-8 -classpath "F:\T9\BDA\Java-Mongo Connection\out\production\MongoJavaConn;F:\T9\BDA\Files\mongo-java-driver-3.12.6.jar" removeConn
Jun 05, 2021 5:19:41 PM com.mongodb.diagnostics.logging.JULLogger log
INFO: Cluster created with settings {hosts=[localhost:27017], mode=SINGLE, requiredClusterType=UNKNOWN, serverSelectionTimeout='30000 ms', maxWaitQueueSize=500}
Jun 05, 2021 5:19:42 PM com.mongodb.diagnostics.logging.JULLogger log
INFO: Cluster description not yet available. Waiting for 30000 ms before timing out
Jun 05, 2021 5:19:42 PM com.mongodb.diagnostics.logging.JULLogger log
INFO: Opened connection [connectionId{localValue:1, serverValue:16}] to localhost:27017
Jun 05, 2021 5:19:42 PM com.mongodb.diagnostics.logging.JULLogger log
INFO: Monitor thread successfully connected to server with description ServerDescription{address=localhost:27017, type=STANDALONE, state=CONNECTED, ok=true, version=ServerVersion{versionList=[4, 9, 0]}, minWireVersion=0, maxWireVersion=12, maxDocumentSize=16777216, logicalSessionTimeoutMinutes=30, roundTripTimeNanos=4335200}
Jun 05, 2021 5:19:42 PM com.mongodb.diagnostics.logging.JULLogger log
INFO: Opened connection [connectionId{localValue:2, serverValue:17}] to localhost:27017
Document removed Successfully

Process finished with exit code 0
```

The bottom status bar shows the current time as 11:40, encoding as CRLF, UTF-8, and 4 spaces. The system tray at the bottom right shows the date and time as 5:19 PM on 6/5/2021.