**Mongo DB Basic Assignment**

**Name : Shrirang Dawande**

**Date : 12/01/22**

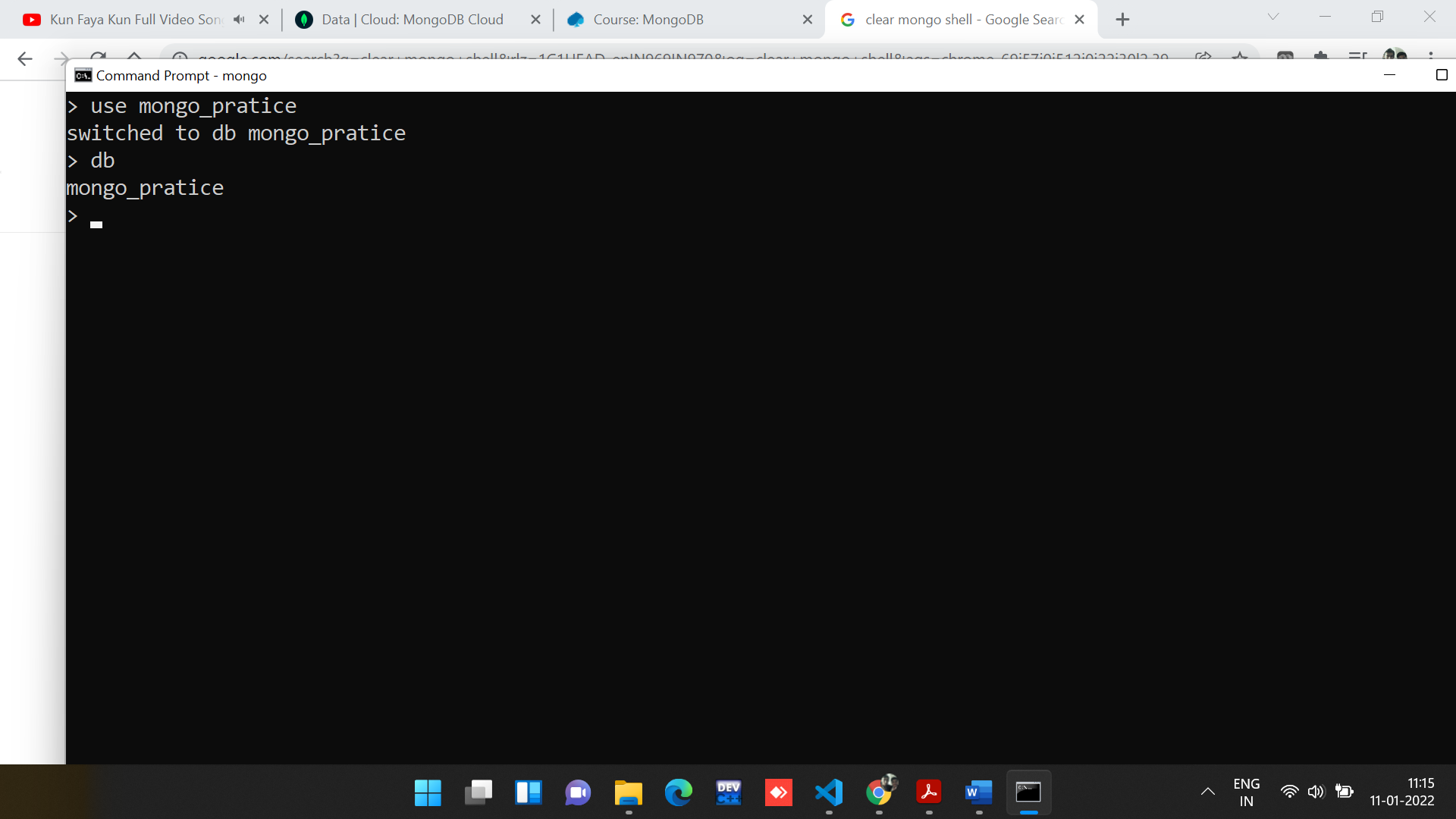
**MongoDB Exercise in mongo shell**

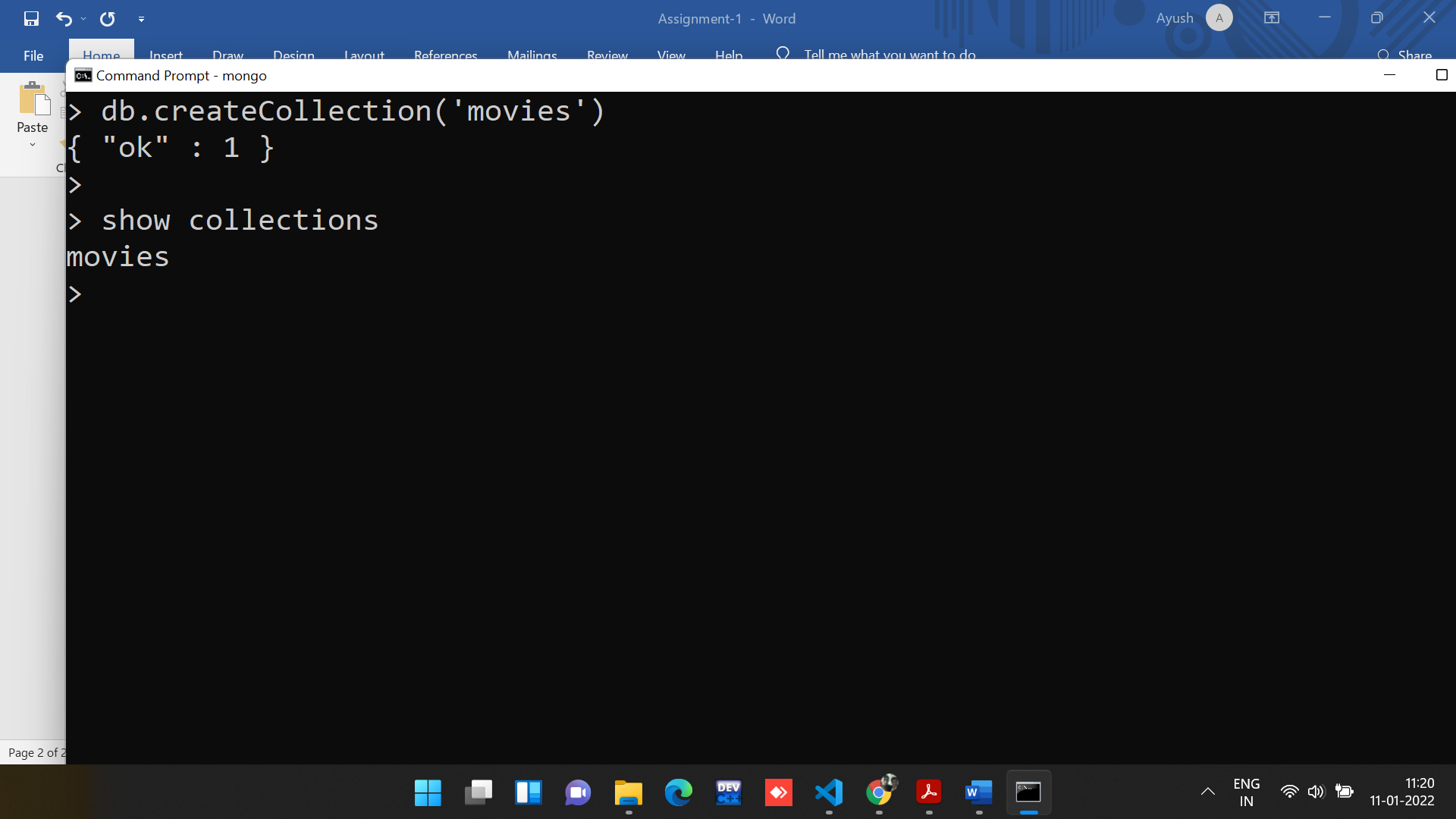
Connect to a running mongo instance, use a database named **mongo\_practice**.

Document all your queries in a javascript file to use as a reference.

**Insert Documents**

Insert the following documents into a **movies** collection.





Insert the provided data in the collection ‘movies’.

**Command to insert many rows in the collection:**

*//command to insert many rows in the batabase.*

db.movies.insertMany([{

    "title" : "Fight Club",

    "writer" : "Chuck Palahniuko",

    "year" : 1999,

    "actors" : [ "Brad Pitt", "Edward Norton" ]

},

{

    "title" : "Pulp Fiction",

    "writer" : "Quentin Tarantino",

    "year" : 1994,

    "actors" : [ "John Travolta", "Uma Thurman" ]

},

{

    "title" : "Inglorious Basterds",

    "writer" : "Quentin Tarantino",

    "year" : 2009,

    "actors" : [ "Brad Pitt", "Diane Kruger","Eli Roth" ]

},

{

    "title" : "The Hobbit : An Unexpected Journey",

    "writer" : "J.R.R. Tolkein",

    "year" : 2012,

    "franchise" : "The Hobbit"

},

{

    "title" : "The Hobbit: The Desolation of Smaug",

    "writer" : "J.R.R. Tolkein",

    "year" : 2013,

    "franchise" : "The Hobbit"

},

{

    "title" : "The Hobbit: The Battle of the Five Armies writer ",

    "writer" : "J.R.R. Tolkein",

    "year" : 2012,

    "franchise" : "The Hobbit",

    "synopsis" : "Bilbo and Company are forced to engage in a war against an array of combatants and keep the Lonely Mountain from falling into the hands of a rising darkness."

},

{

    "title" : "Pee Wee Herman's Big Adventure"

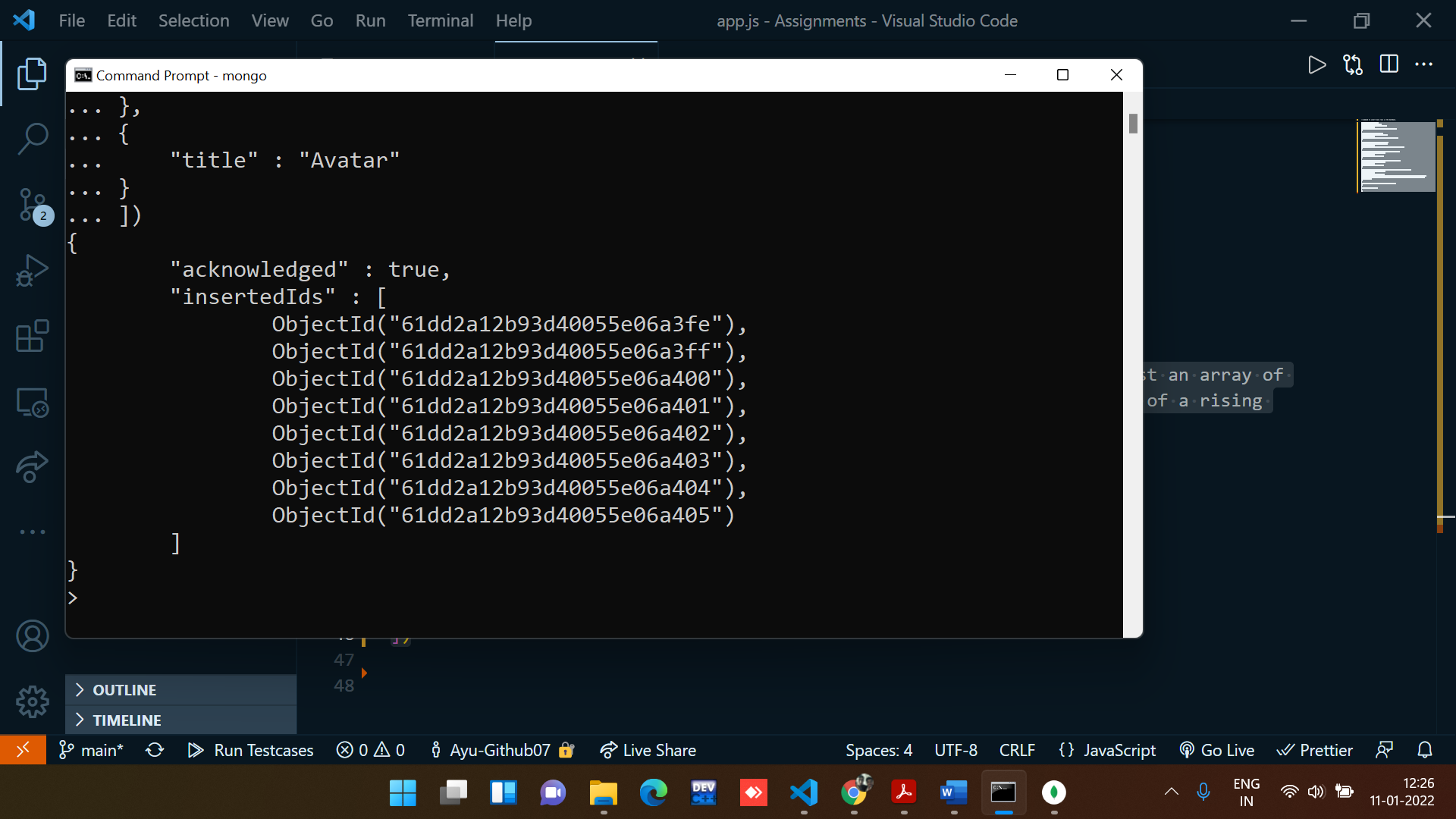
},

{

    "title" : "Avatar"

}

])

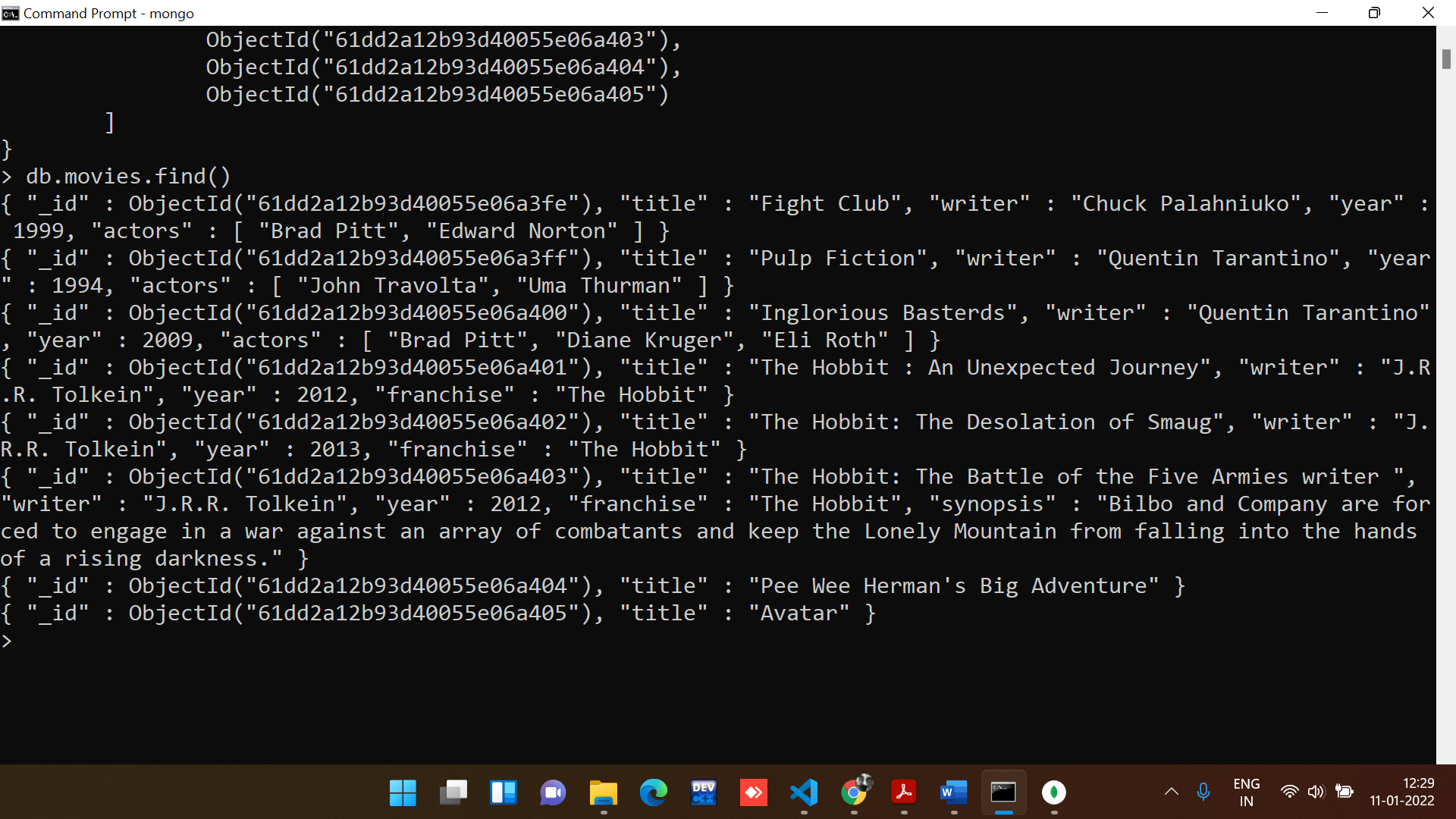


**Query / Find Documents**

query the movies collection to

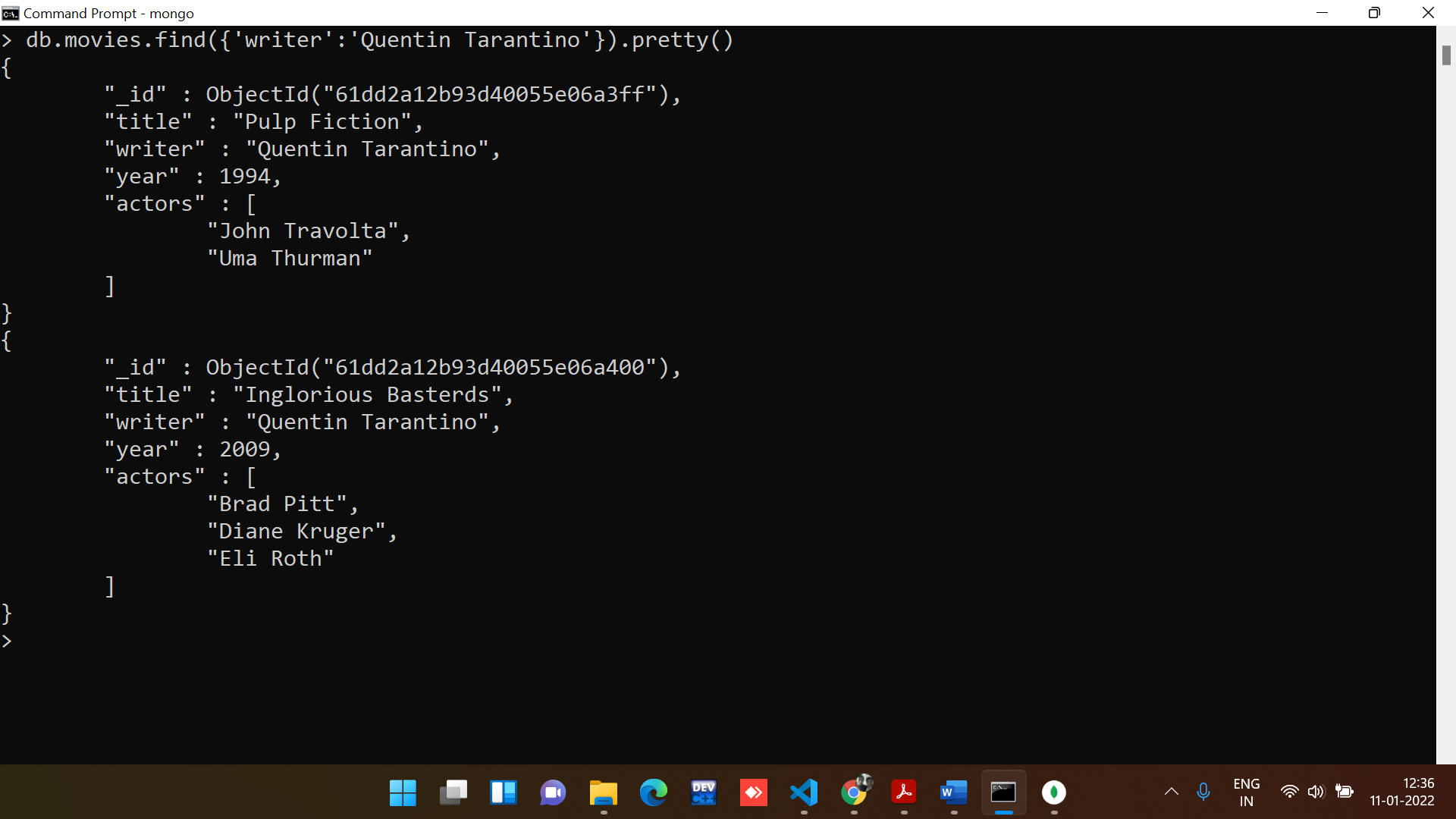
1. get all document

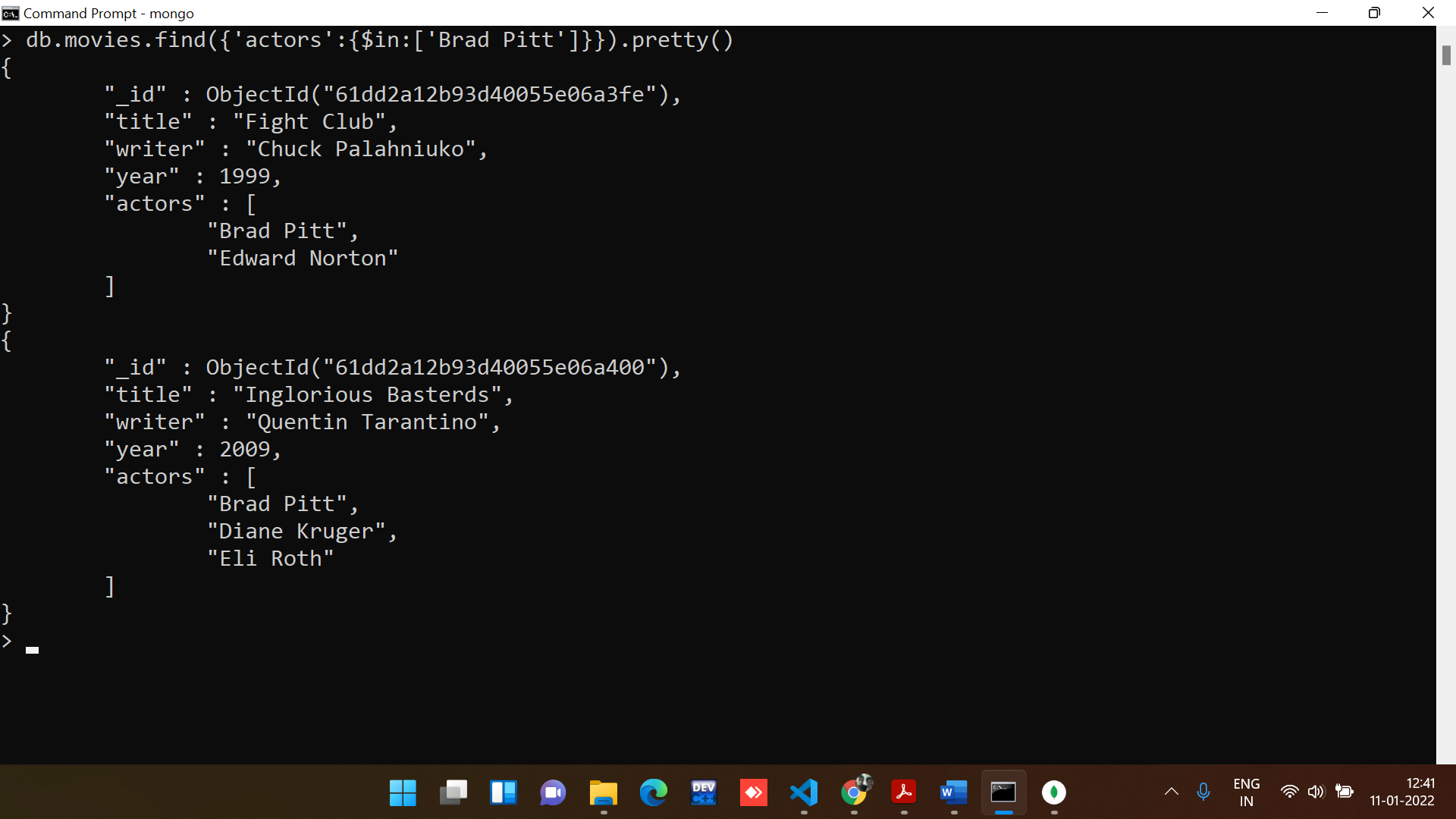
**Output:**



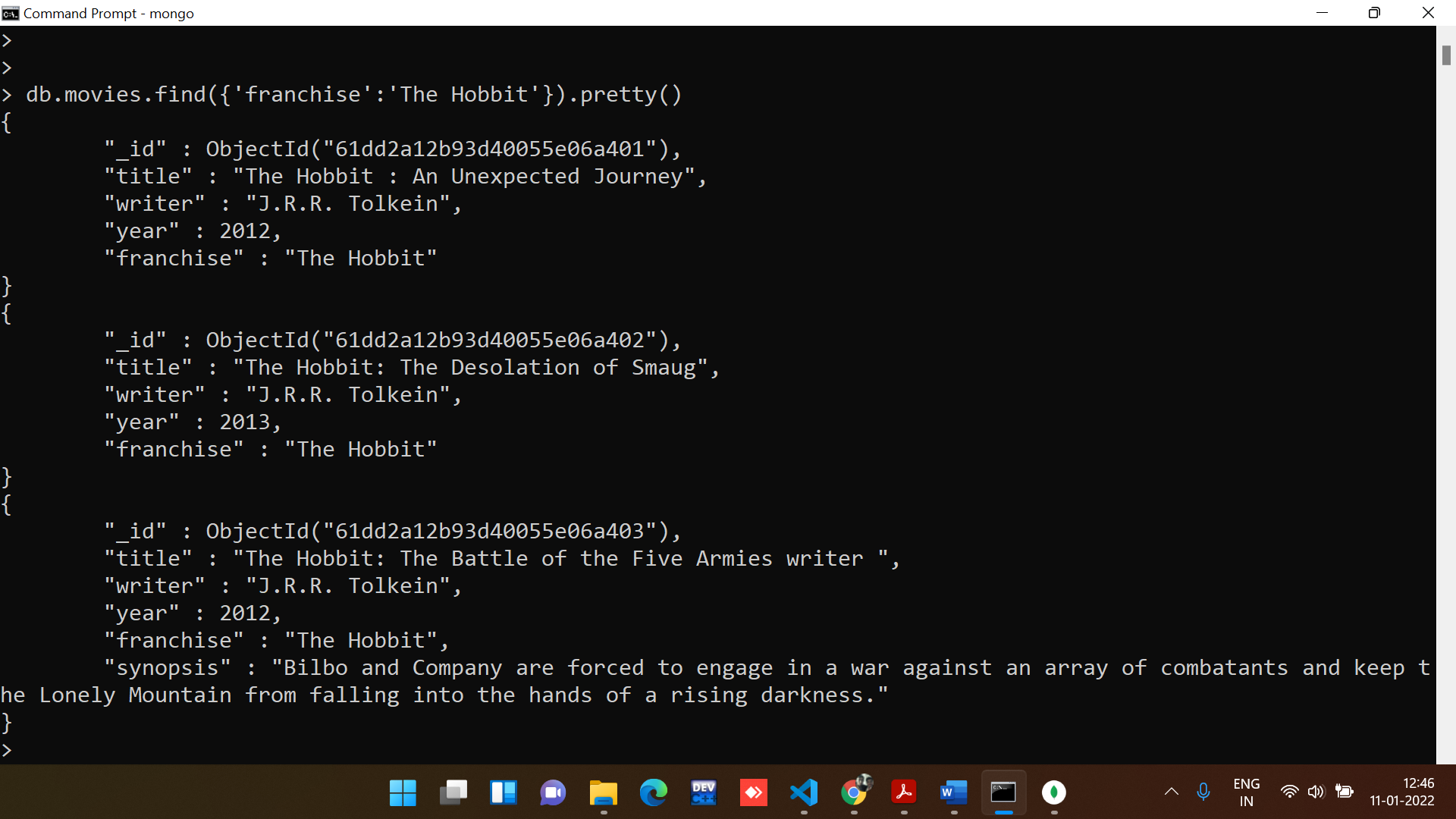
2. get all documents with writer set to "Quentin Tarantino"

**Output:**

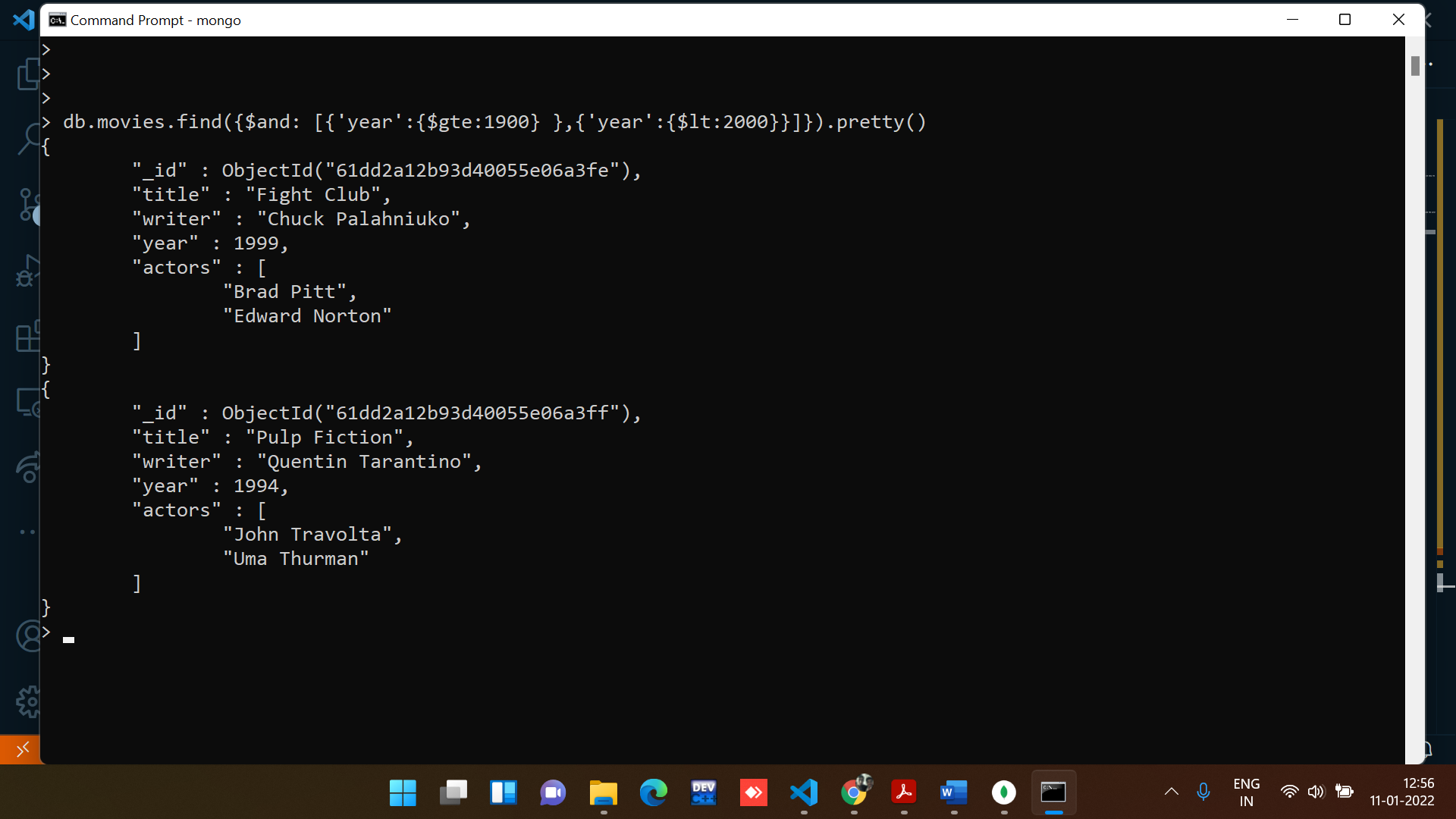


3. get all documents where actors include "Brad Pitt".

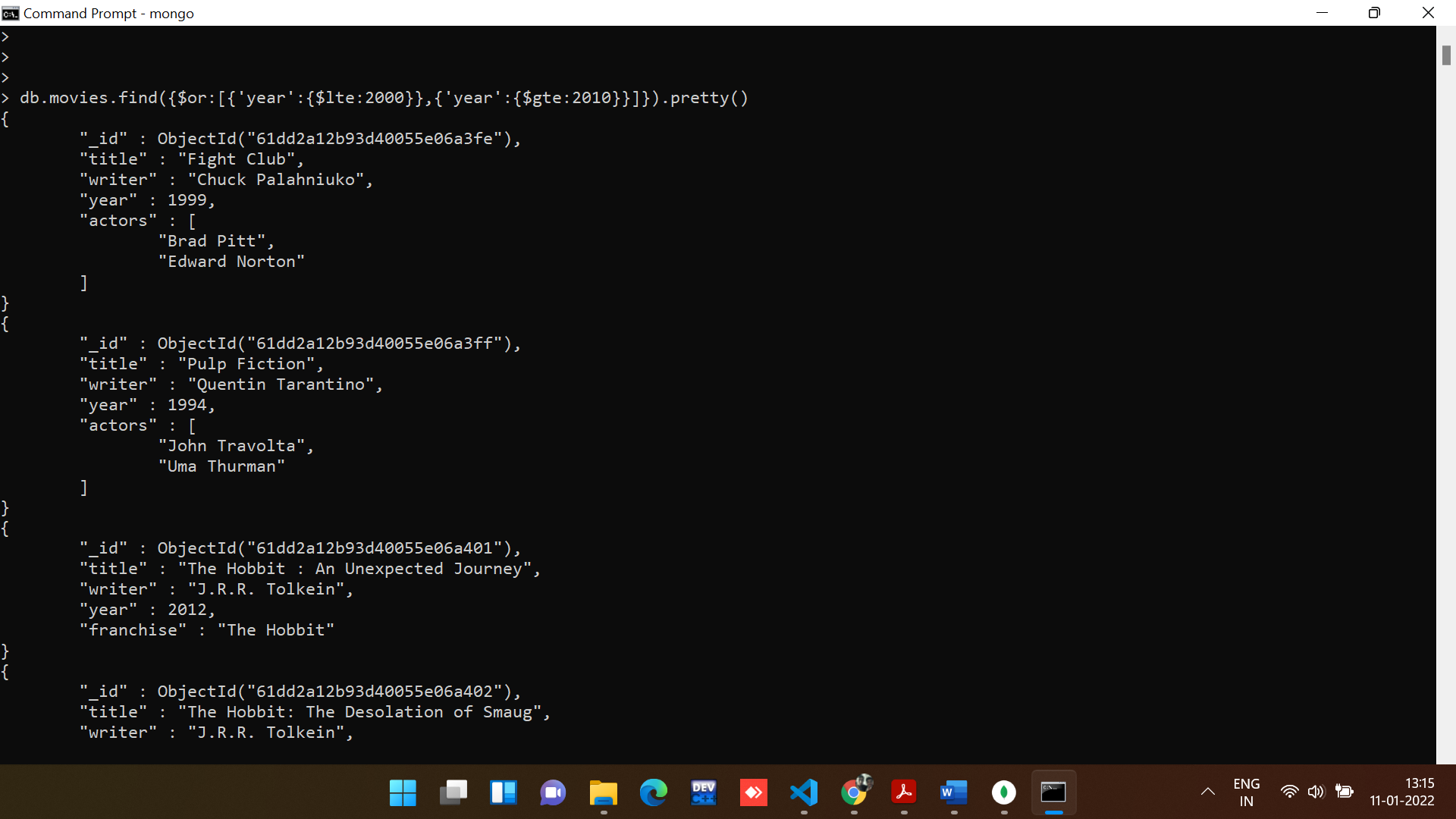
4. get all documents with franchise set to "The Hobbit"

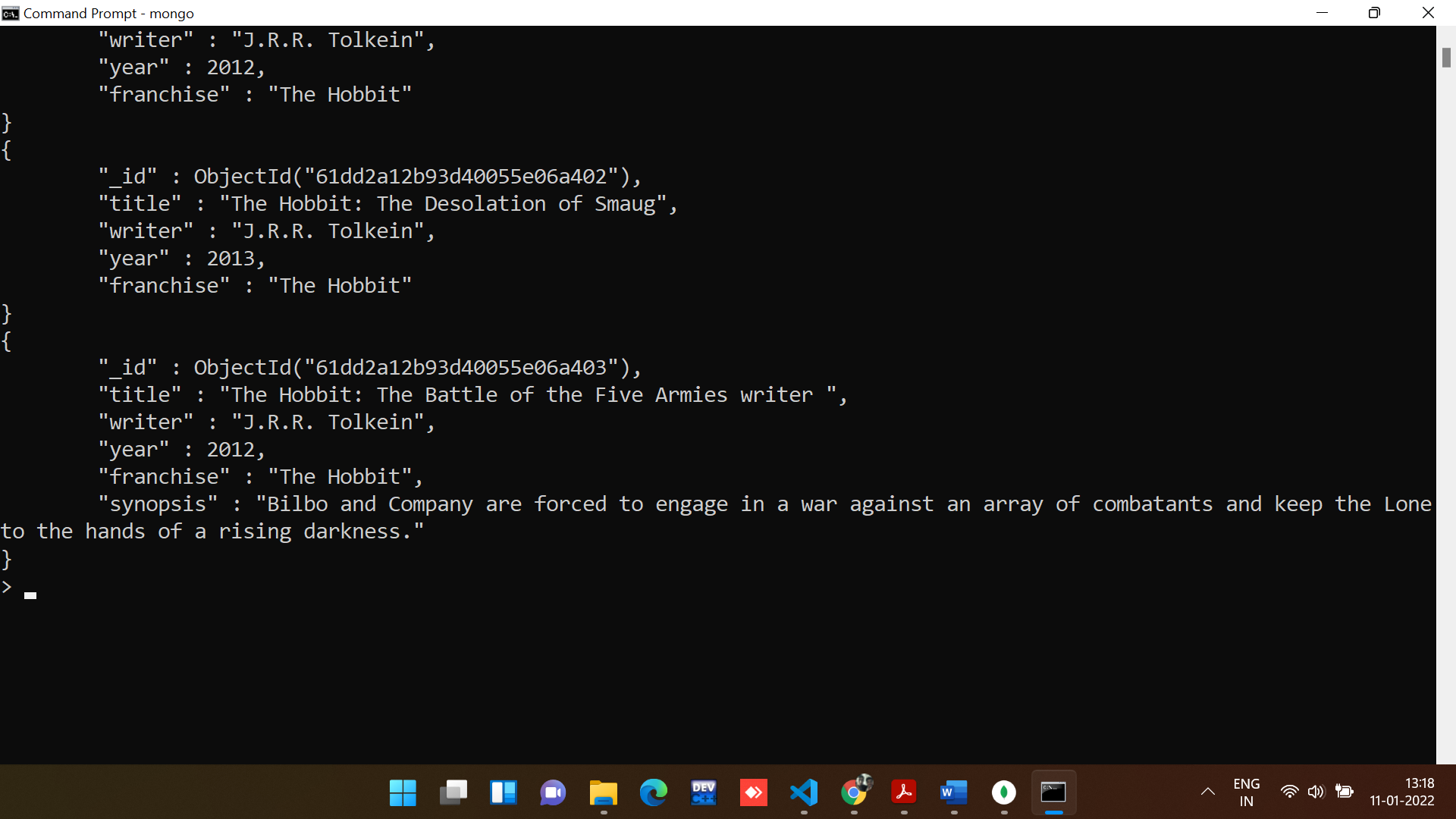


5. get all movies released in the 90s.



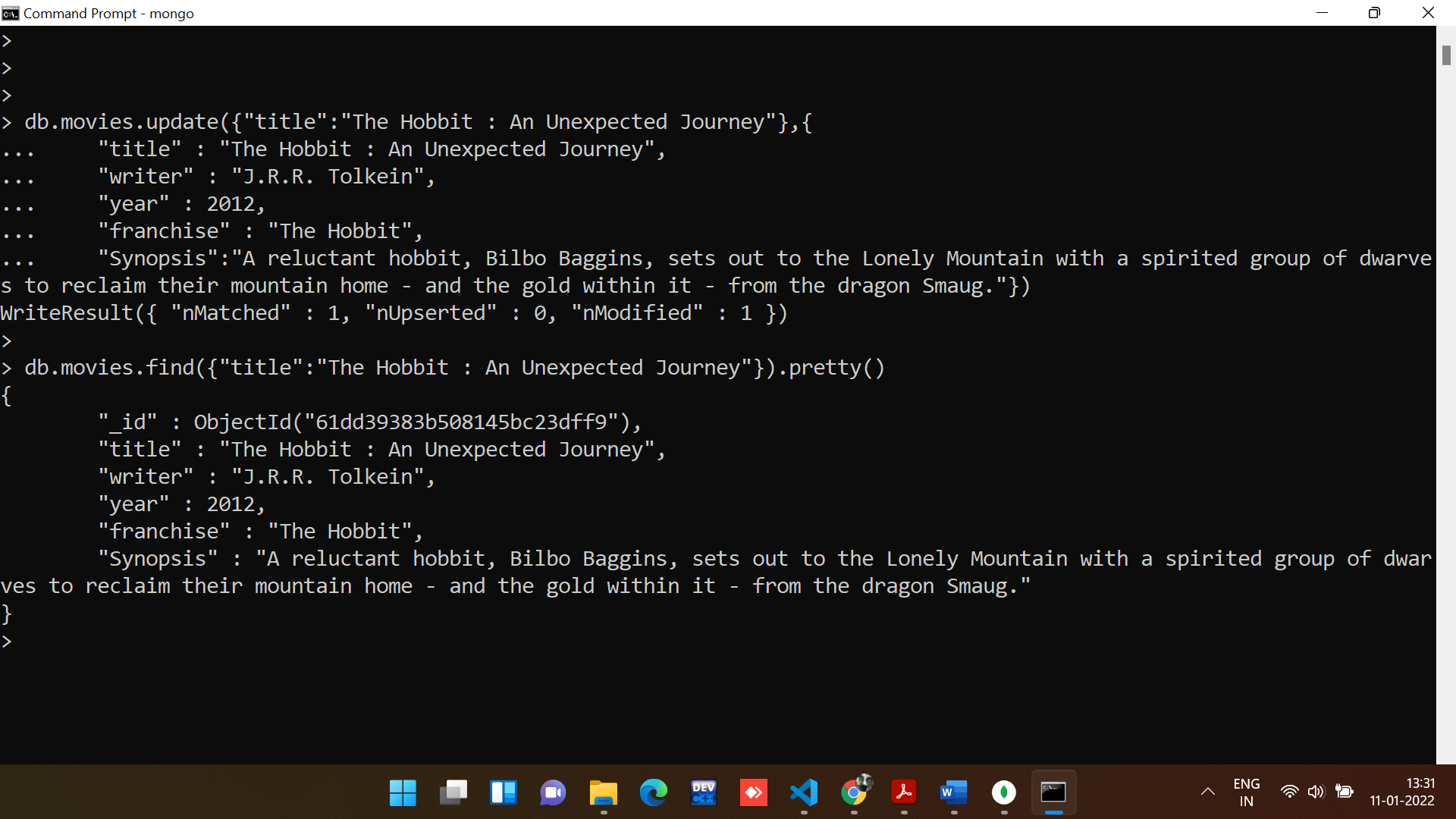
6. get all movies released before the year 2000 or after 2010





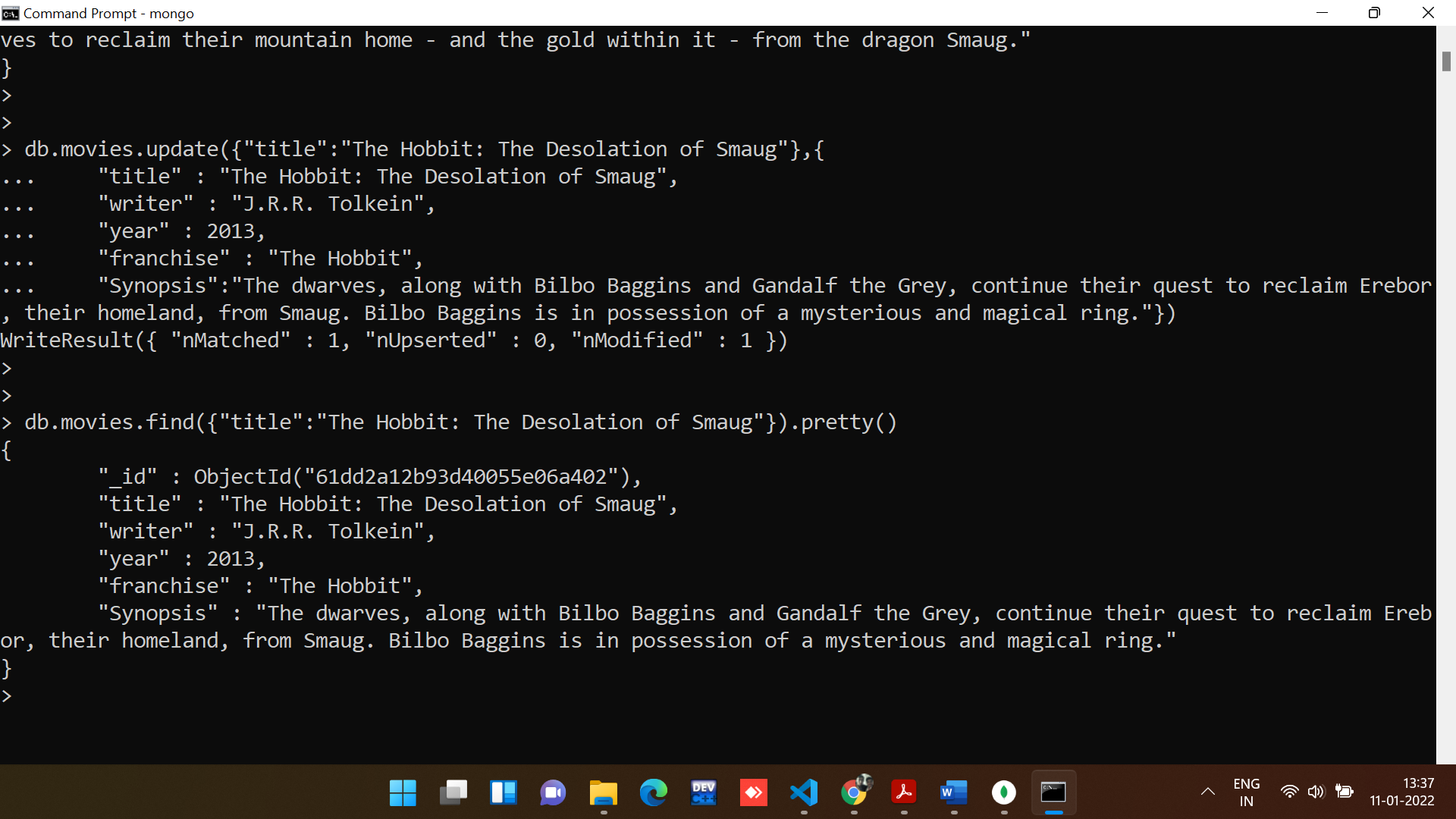
**Section-3 :- Update Documents**

1. add a synopsis to "The Hobbit: An Unexpected Journey" : "A reluctant hobbit, Bilbo Baggins, sets out to the Lonely Mountain with a spirited group of dwarves to reclaim their mountain home - and the gold within it - from the dragon Smaug."

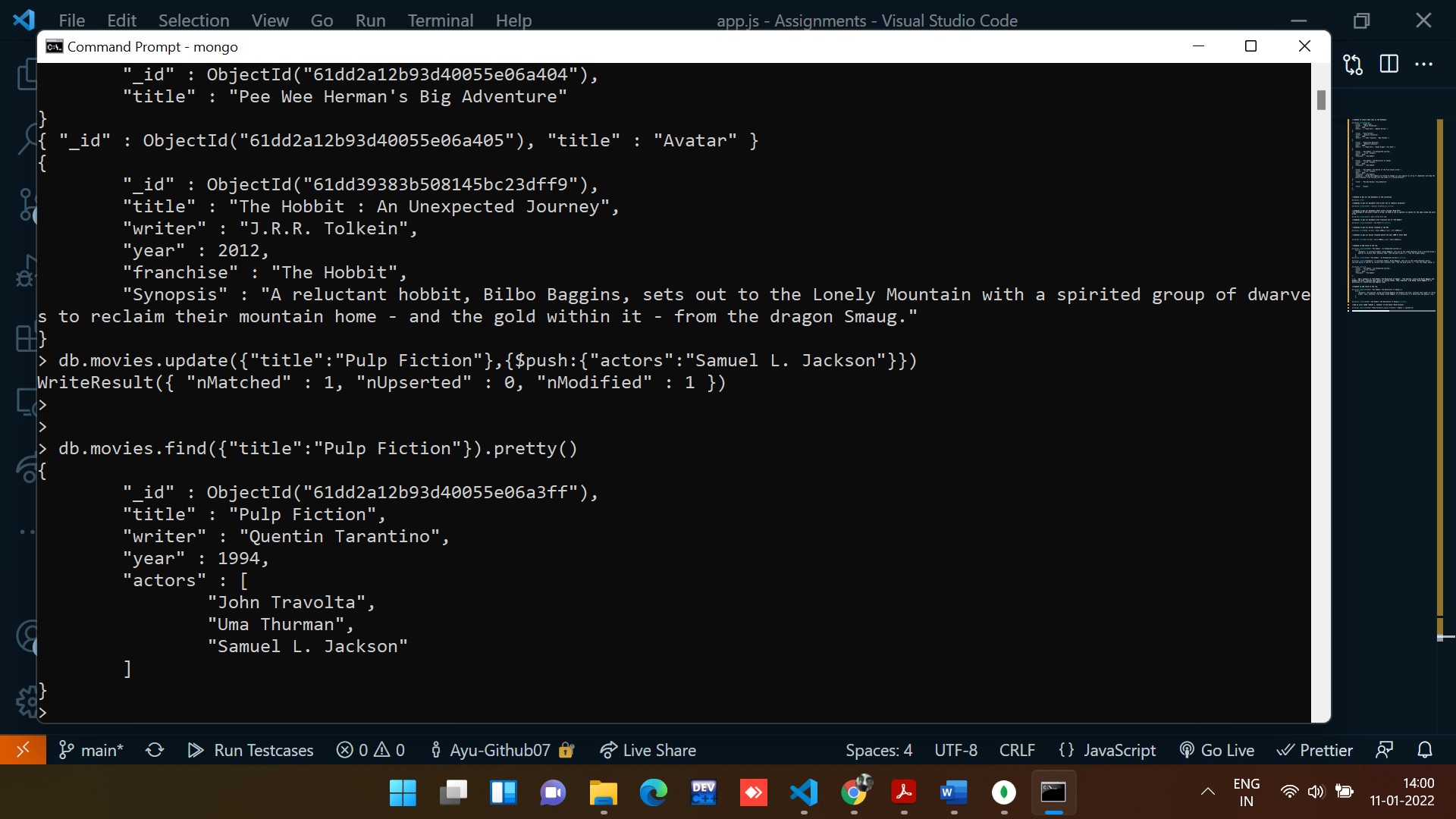


2. add a synopsis to "The Hobbit: The Desolation of Smaug" : "The dwarves, along with Bilbo Baggins and Gandalf the Grey, continue their quest to reclaim Erebor, their homeland, from Smaug. Bilbo Baggins is in possession of a mysterious and magical ring."

**Command:**



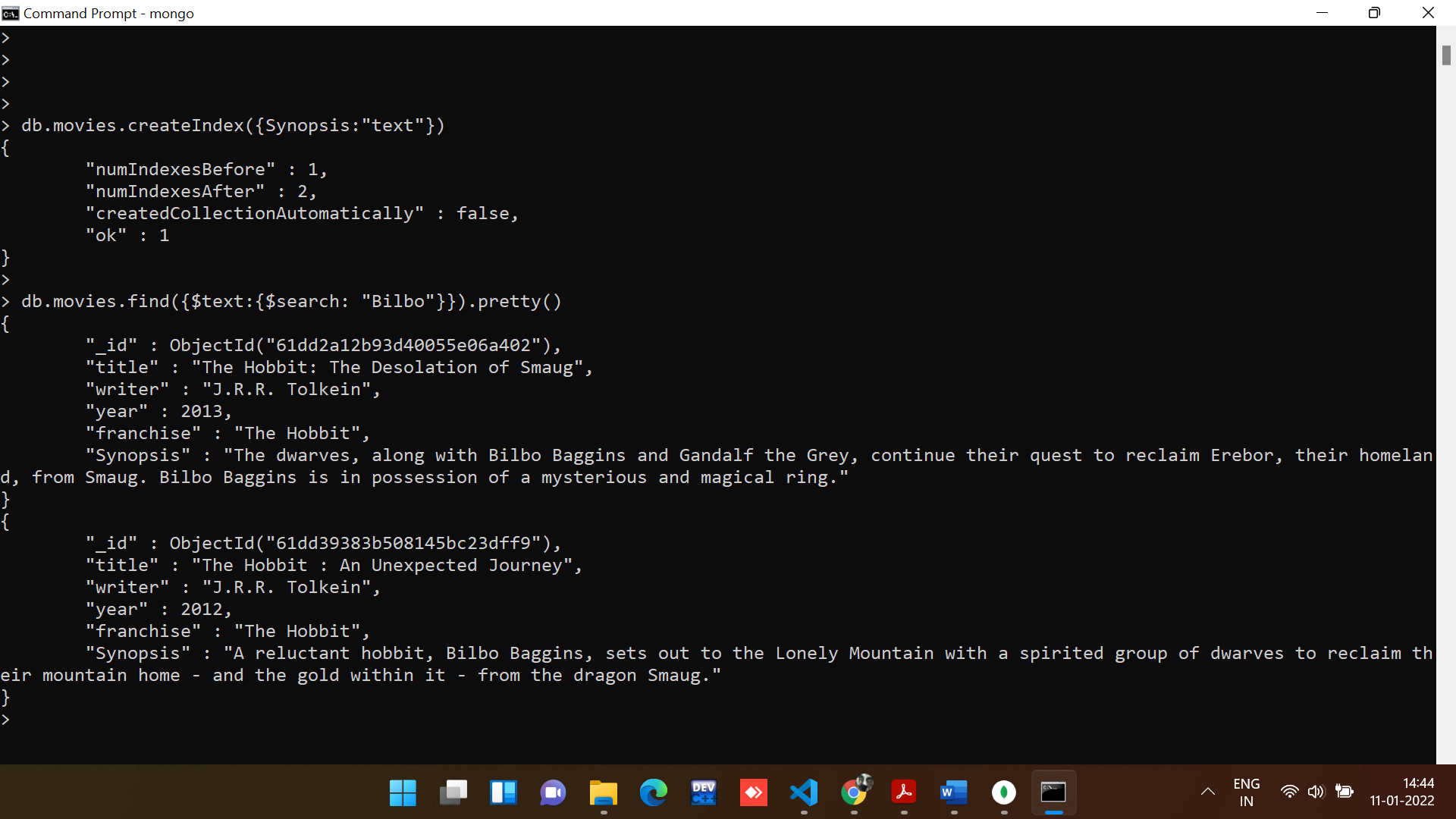
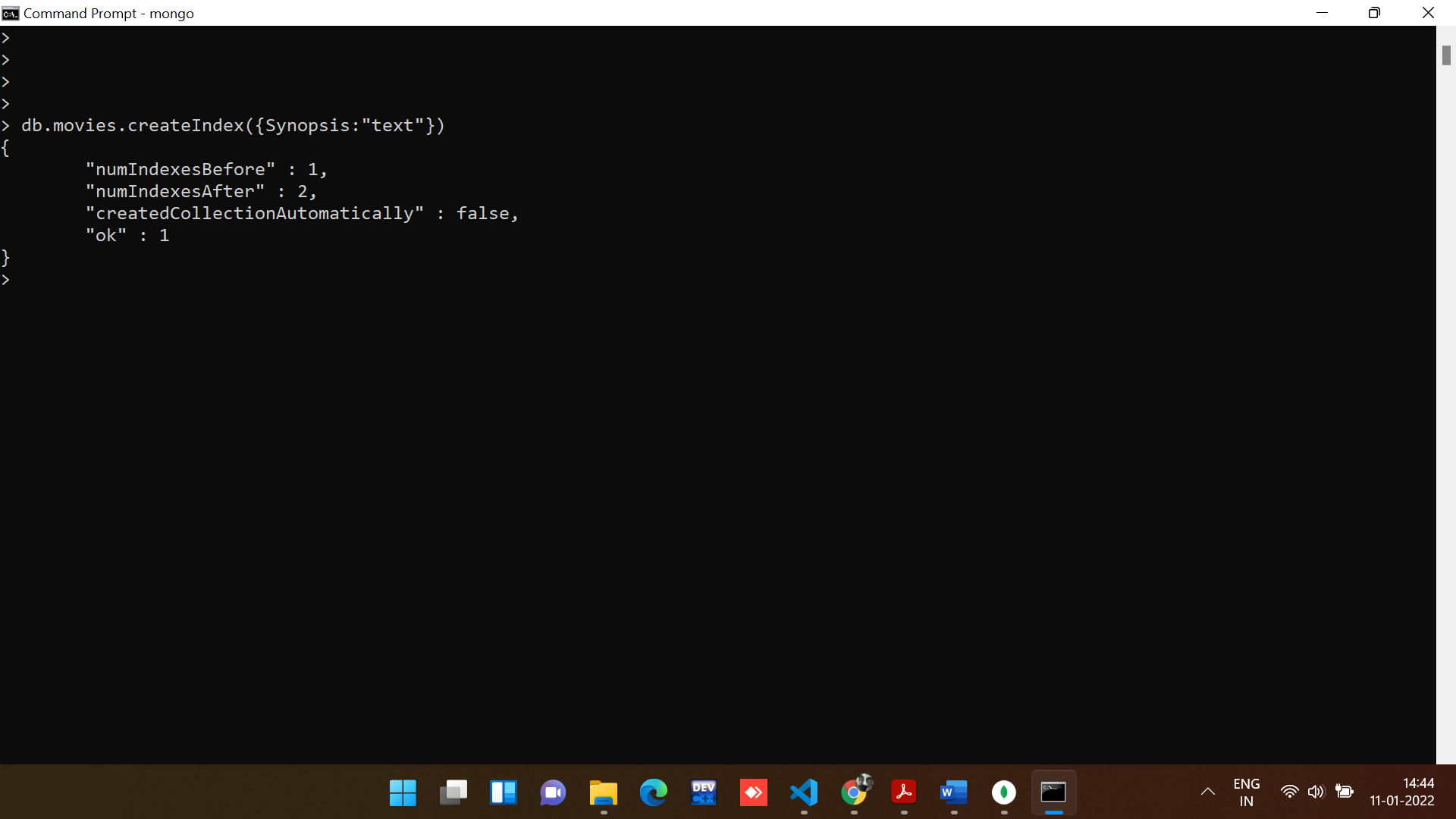
3. add an actor named "Samuel L. Jackson" to the movie "Pulp Fiction".



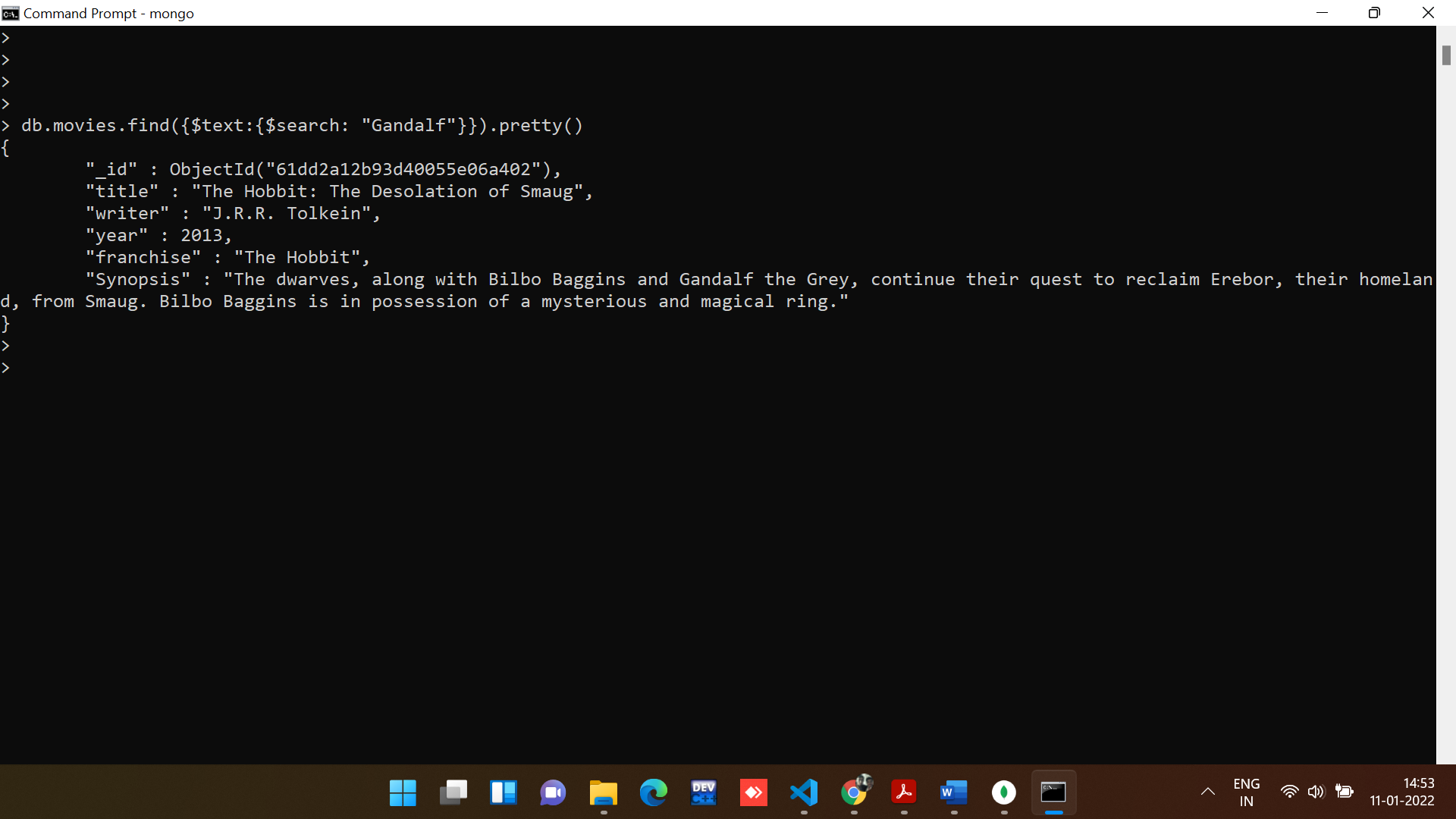
**Section-4: - Text Search**

1. find all movies that have a synopsis that contains the word "Bilbo".

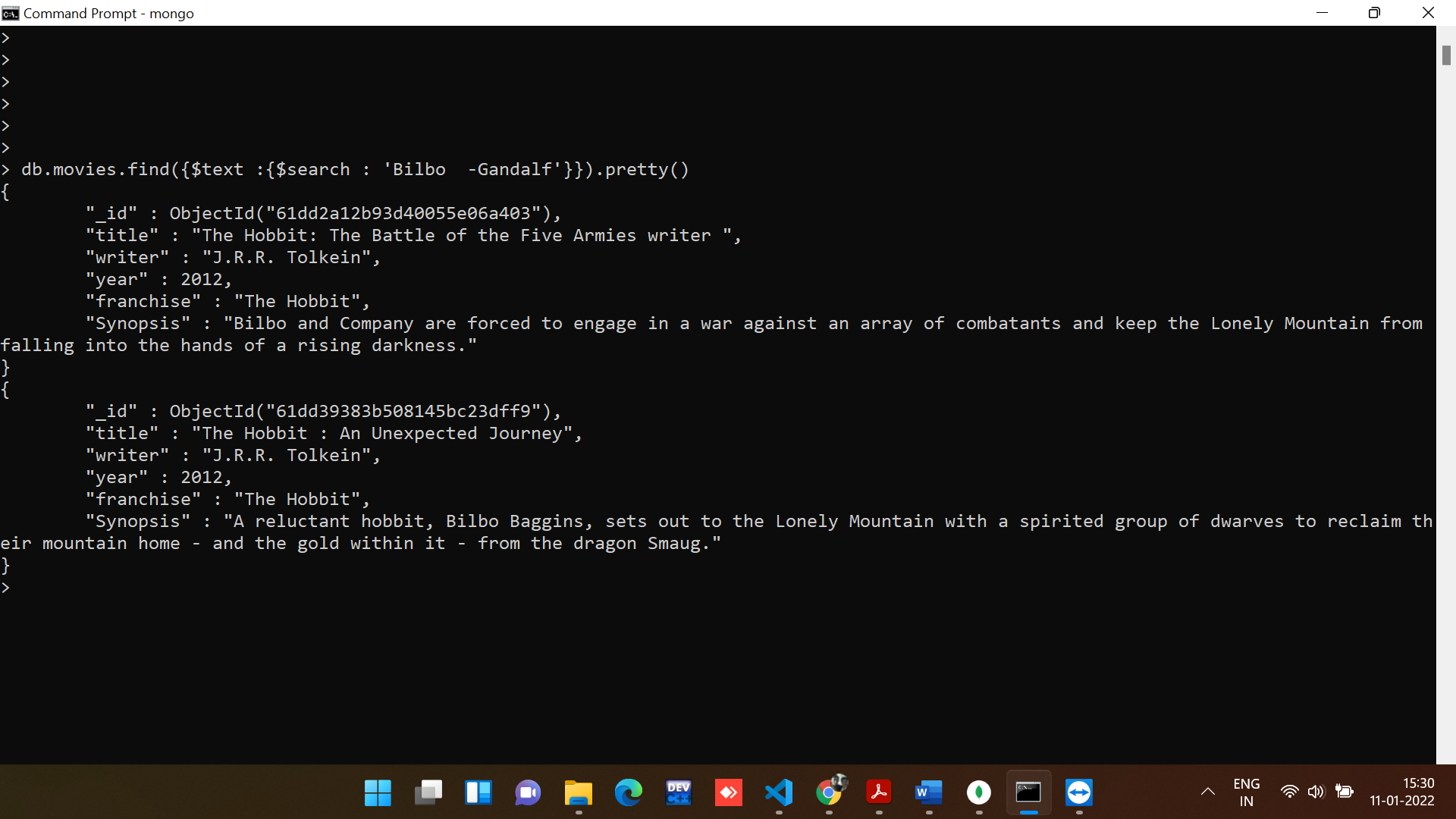
**Creating Text Index**



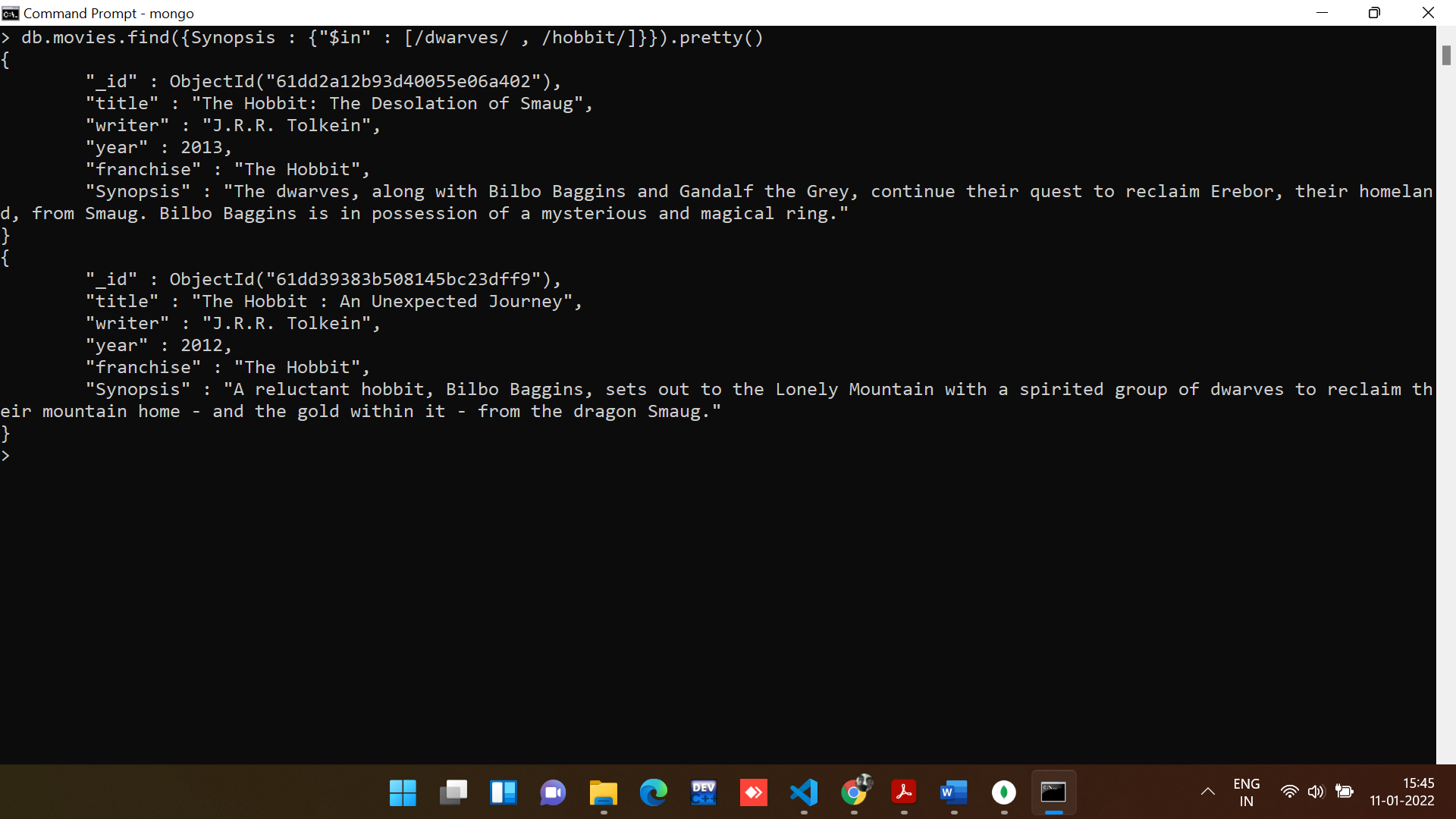
2. find all movies that have a synopsis that contains the word "Gandalf".



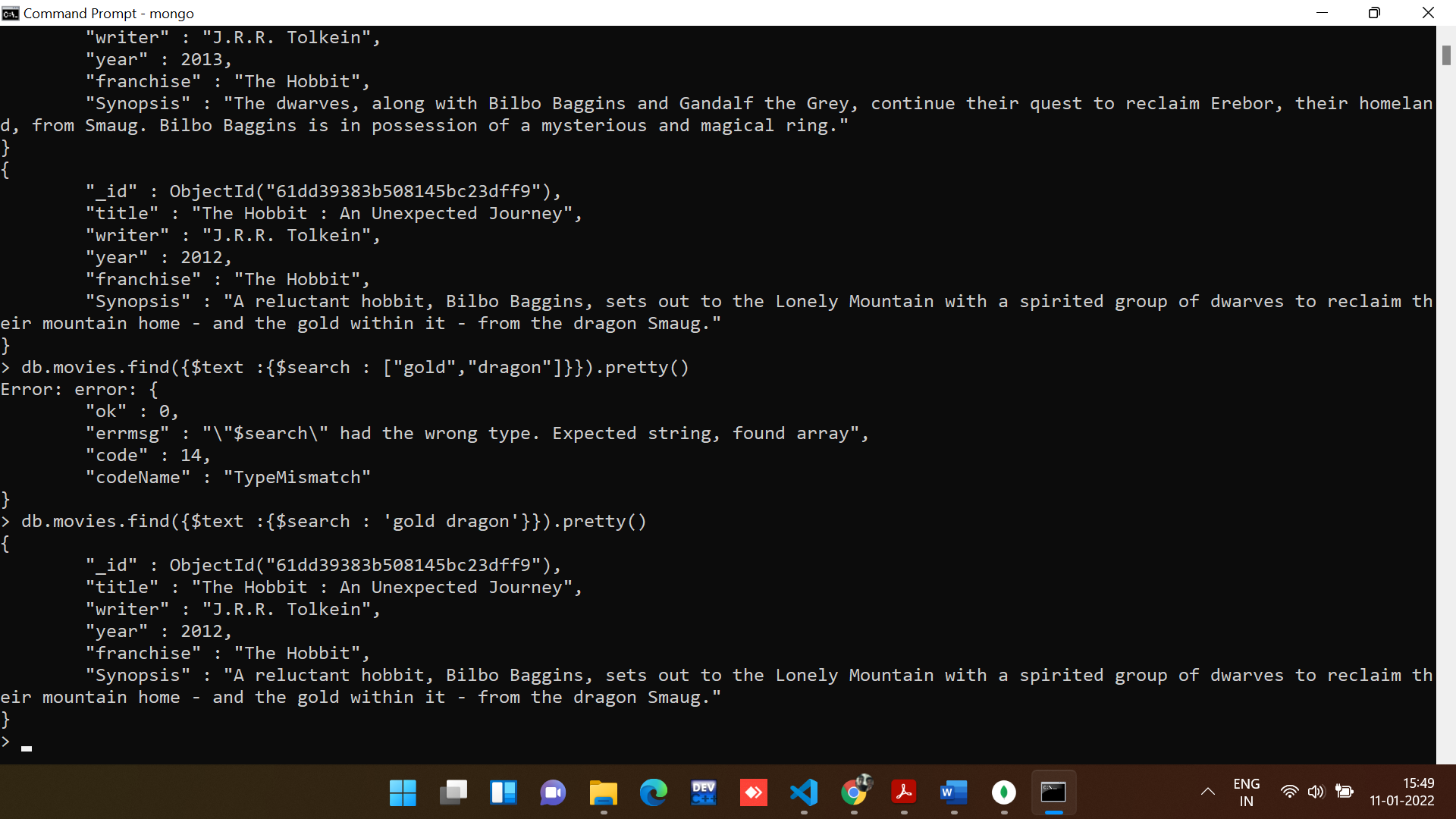
3. find all movies that have a synopsis that contains the word "Bilbo" and not the word "Gandalf"



4. find all movies that have a synopsis that contains the word "dwarves" or "hobbit".

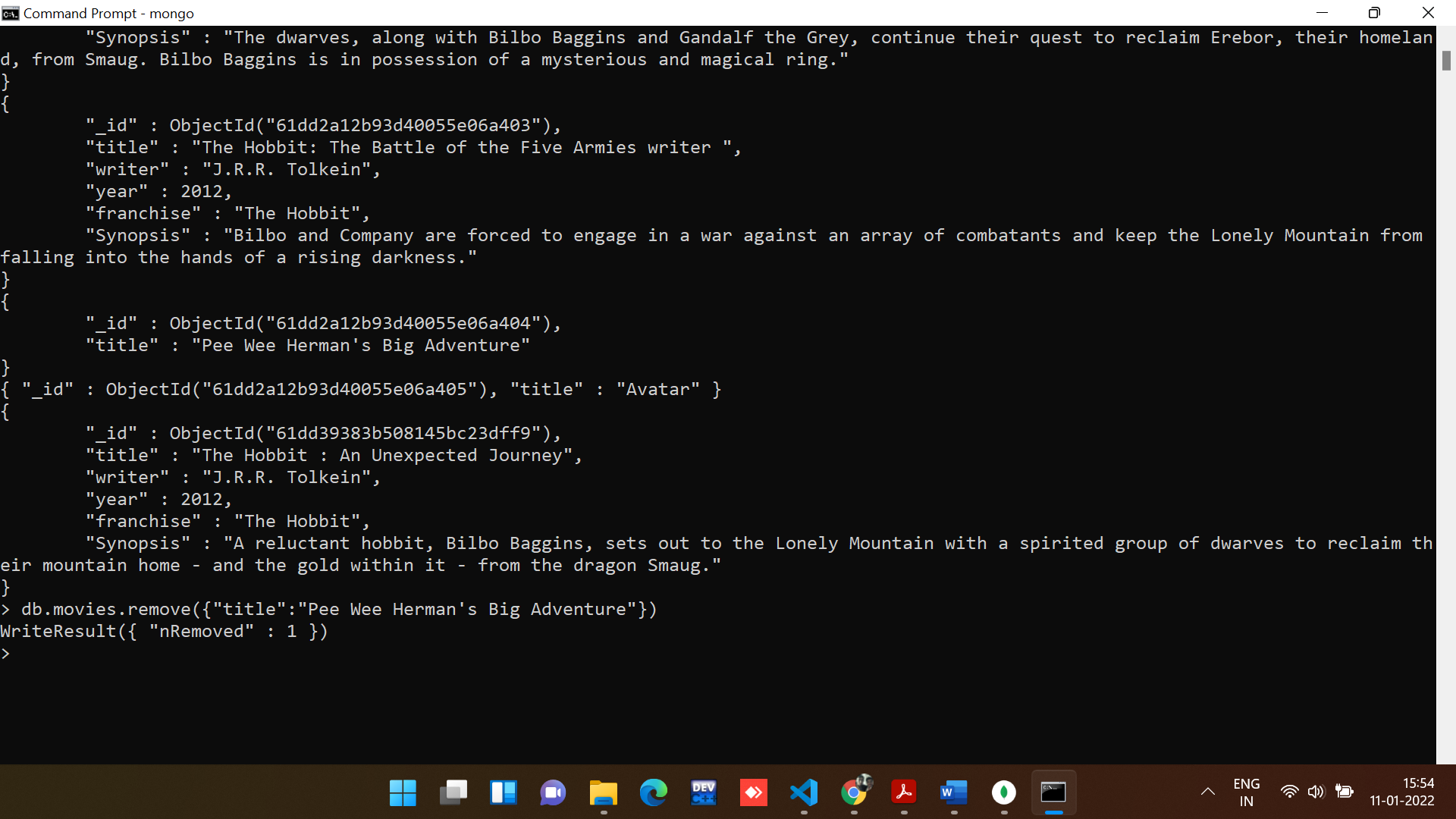


5. find all movies that have a synopsis that contains the word "gold" and "dragon".

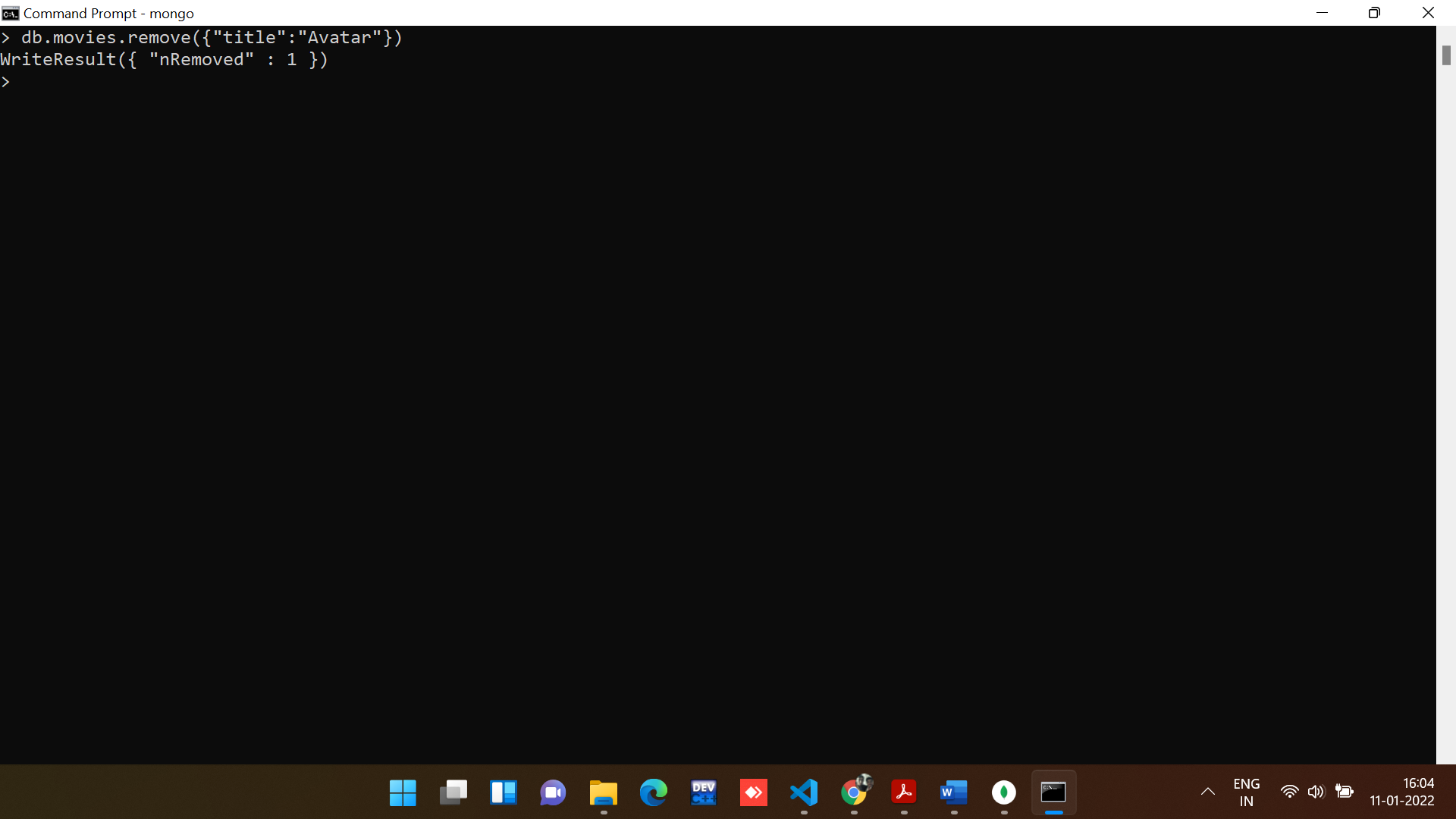


**Section-5: - Delete Documents**

1. delete the movie "Pee Wee Herman's Big Adventure".



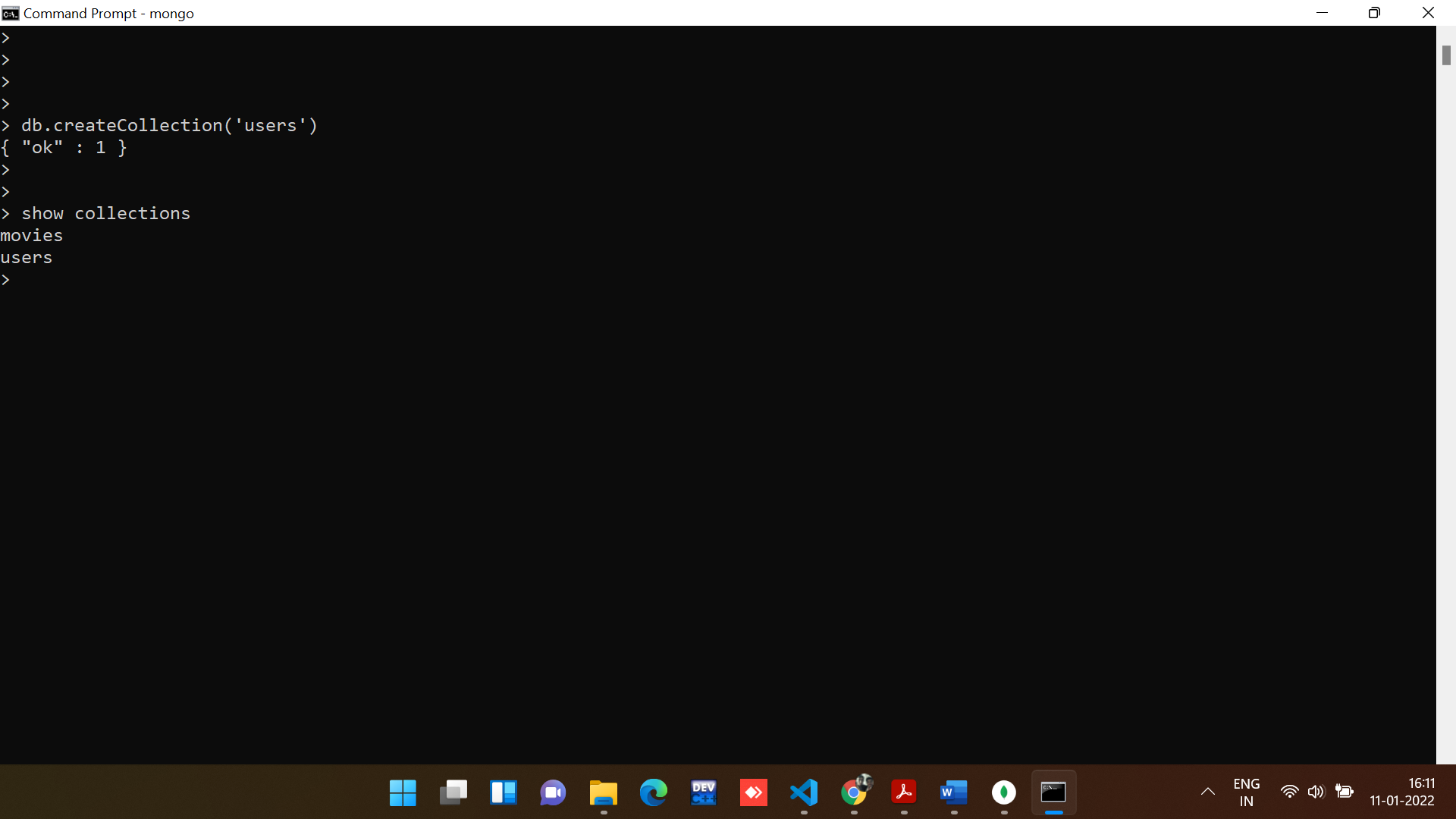
2. delete the movie "Avatar".

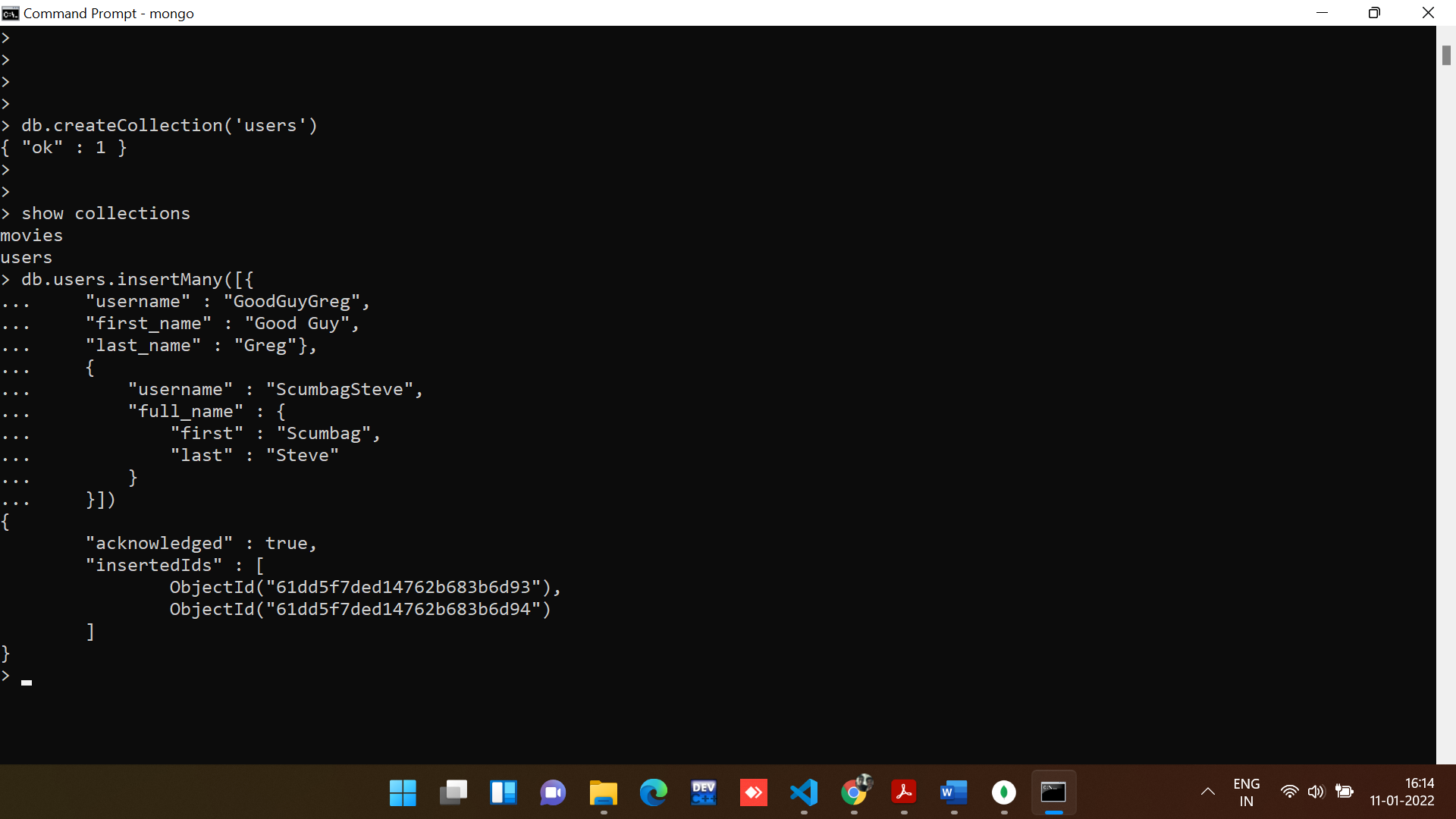


**Section-6: - Relationships**

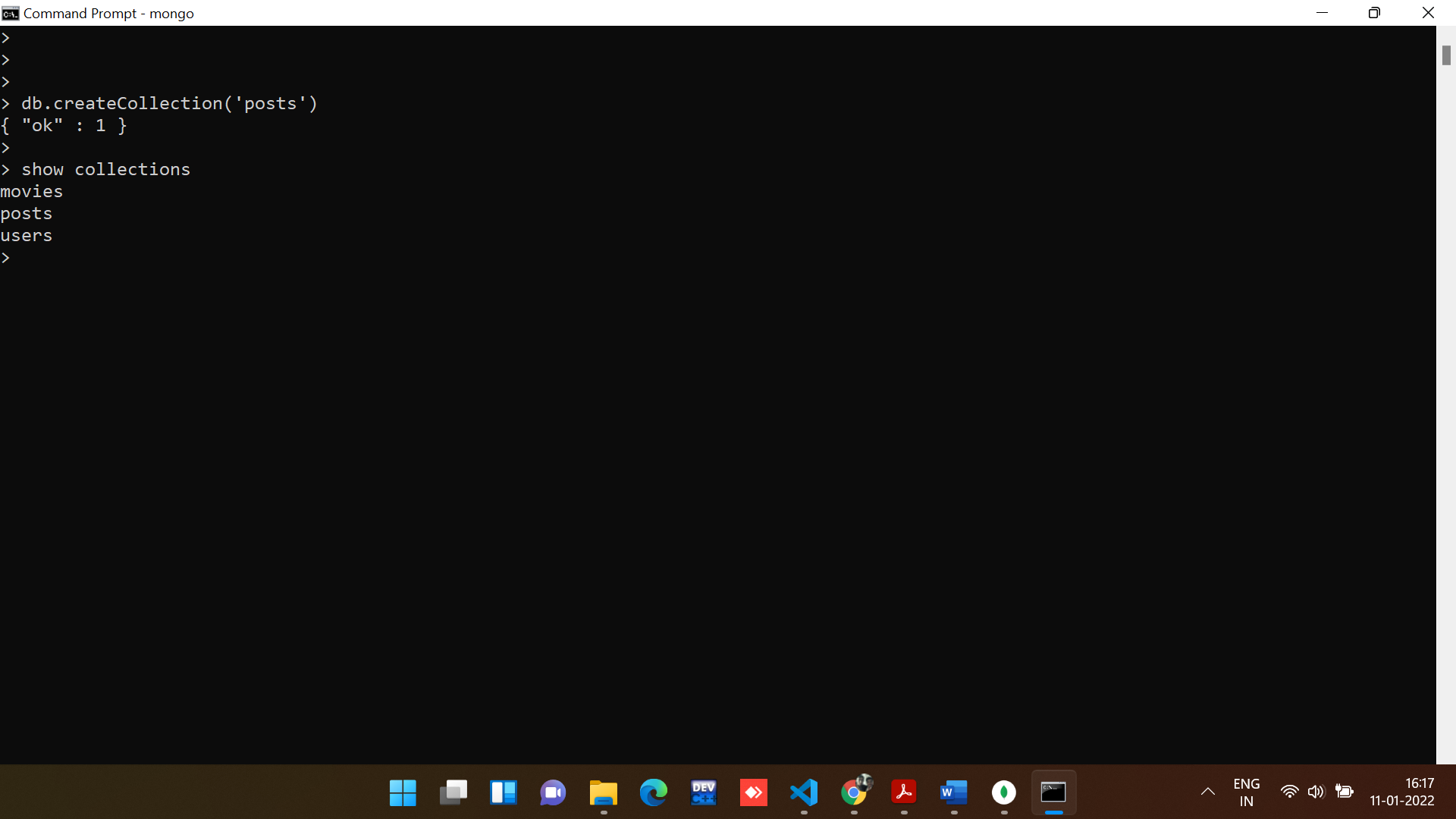
Insert the following documents into a users collection

Create a new collection named ‘users’ using the following command:





Insert the following documents into a posts collection.



Insert rows inside the users collection:

**Command:**

db.posts.insertMany([

    {

    "username" : "GoodGuyGreg",

    "title" : "Passes out at party",

    "boby" : "Wakes up early and cleans house"

    },

    {

        "username" : "GoodGuyGreg",

        "title" : "Steals your identity",

        "boby" : "Raises your credit score"

    },

    {

        "username" : "GoodGuyGreg",

        "title" : "Reports a bug in your code",

        "boby" : "Sends you a Pull Request"

    },

    {

        "username" : "ScumbagSteve",

        "title" : "Borrows something",

        "boby" : "Sells it"

    },

    {

        "username" : "ScumbagSteve",

        "title" : "Borrows everything",

        "boby" : "The end"

    },

    {

        "username" : "ScumbagSteve",

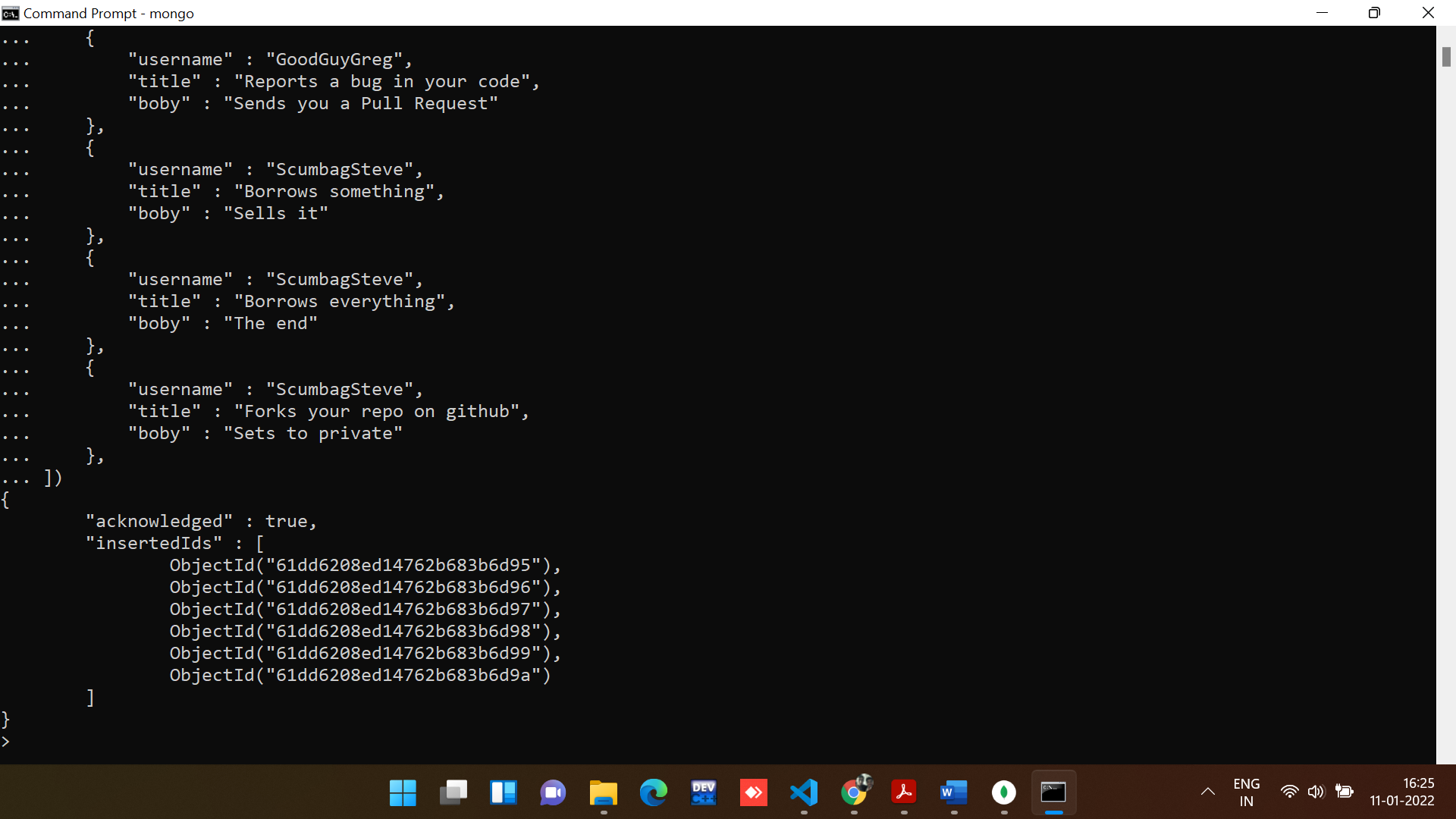
        "title" : "Forks your repo on github",

        "boby" : "Sets to private"

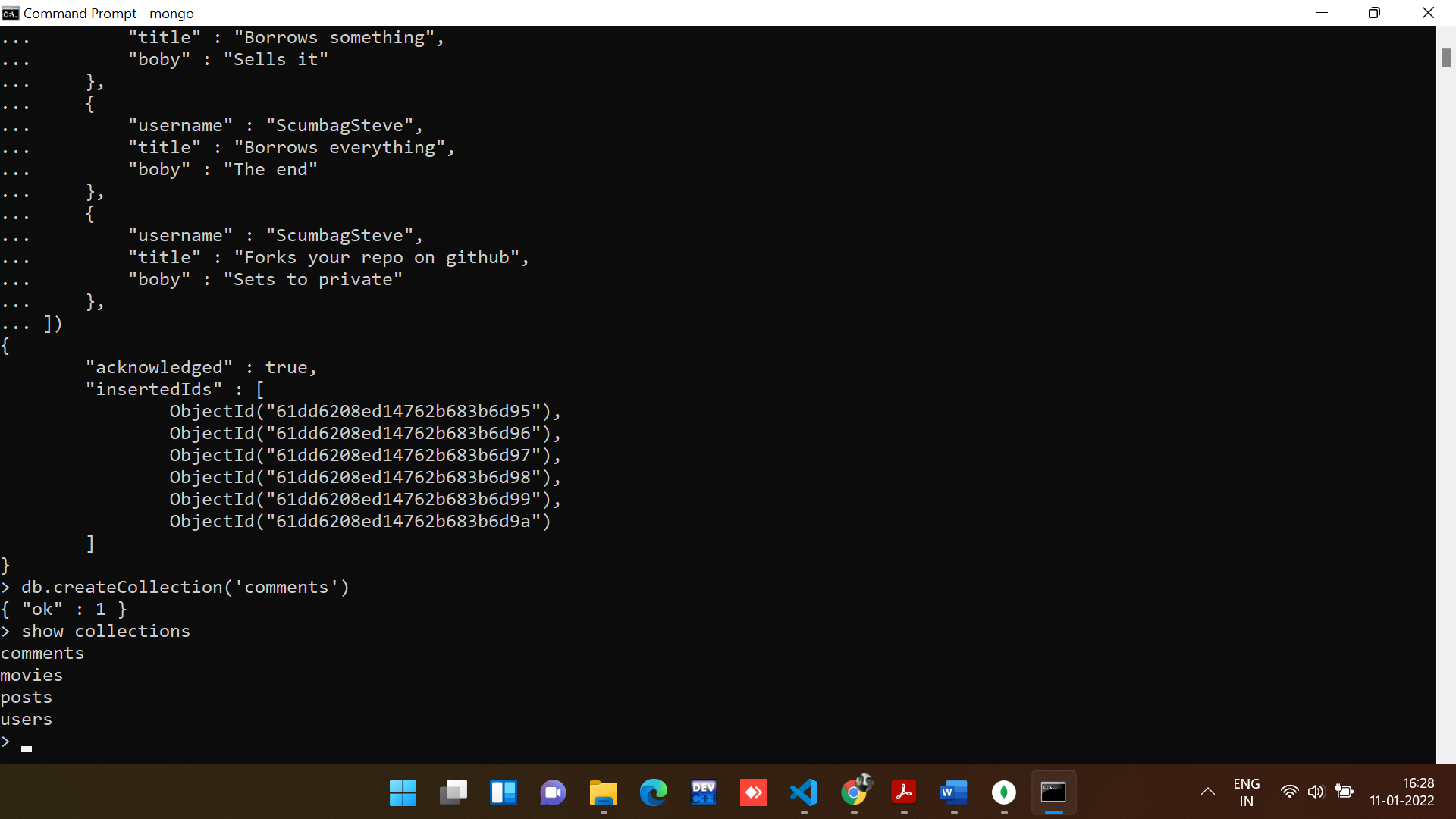
    },

])

**Output:**



Insert the following documents into a comments collection.



Insert rows inside the users collection:

db.comments.insertMany([

  {

    username: "GoodGuyGreg",

    comment: "Hope you got a good deal!",

    post: [

      {

        $ref: "posts",

        $id: ObjectId("61dd6208ed14762b683b6d98"),

        $db: "mongo\_pratice",

      },

    ],

  },

  {

    username: "GoodGuyGreg",

    comment: "What's mine is yours!",

    post: [

      {

        $ref: "posts",

        $id: ObjectId("61dd6208ed14762b683b6d99"),

        $db: "mongo\_pratice",

      },

    ],

  },

  {

    username: "GoodGuyGreg",

    comment: "Don't violate the licensing agreement!",

    post: [

      {

        $ref: "posts",

        $id: ObjectId("61dd6208ed14762b683b6d9a"),

        $db: "mongo\_pratice",

      },

    ],

  },

  {

    username: "ScumbagSteve",

    comment: "It still isn't clean",

    post: [

      {

        $ref: "posts",

        $id: ObjectId("61dd6208ed14762b683b6d95"),

        $db: "mongo\_pratice",

      },

    ],

  },

  {

    username: "ScumbagSteve",

    comment: "Denied your PR cause I found a hack",

    post: [

      {

        $ref: "posts",

        $id: ObjectId("61dd6208ed14762b683b6d97"),

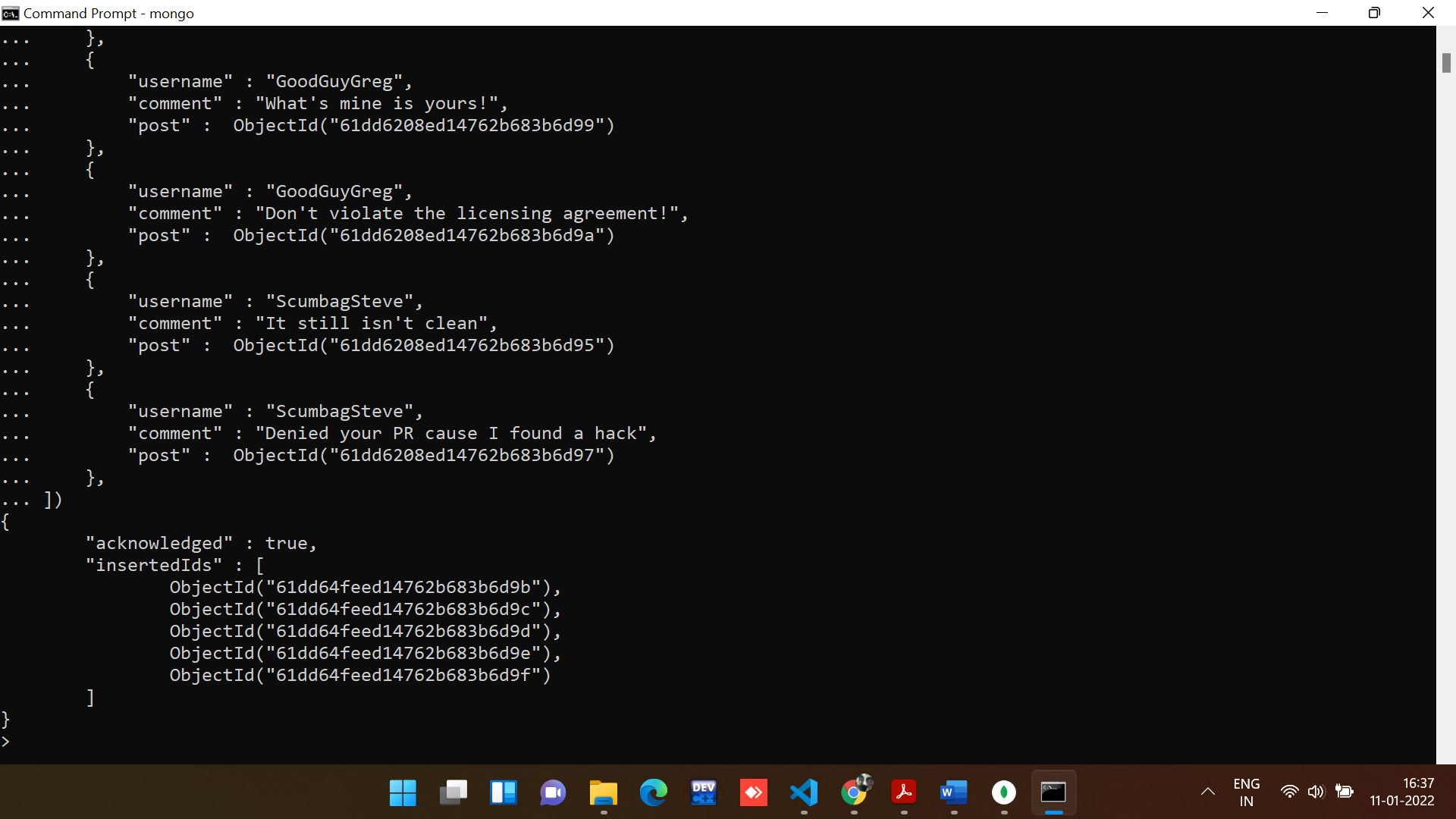
        $db: "mongo\_pratice",

      },

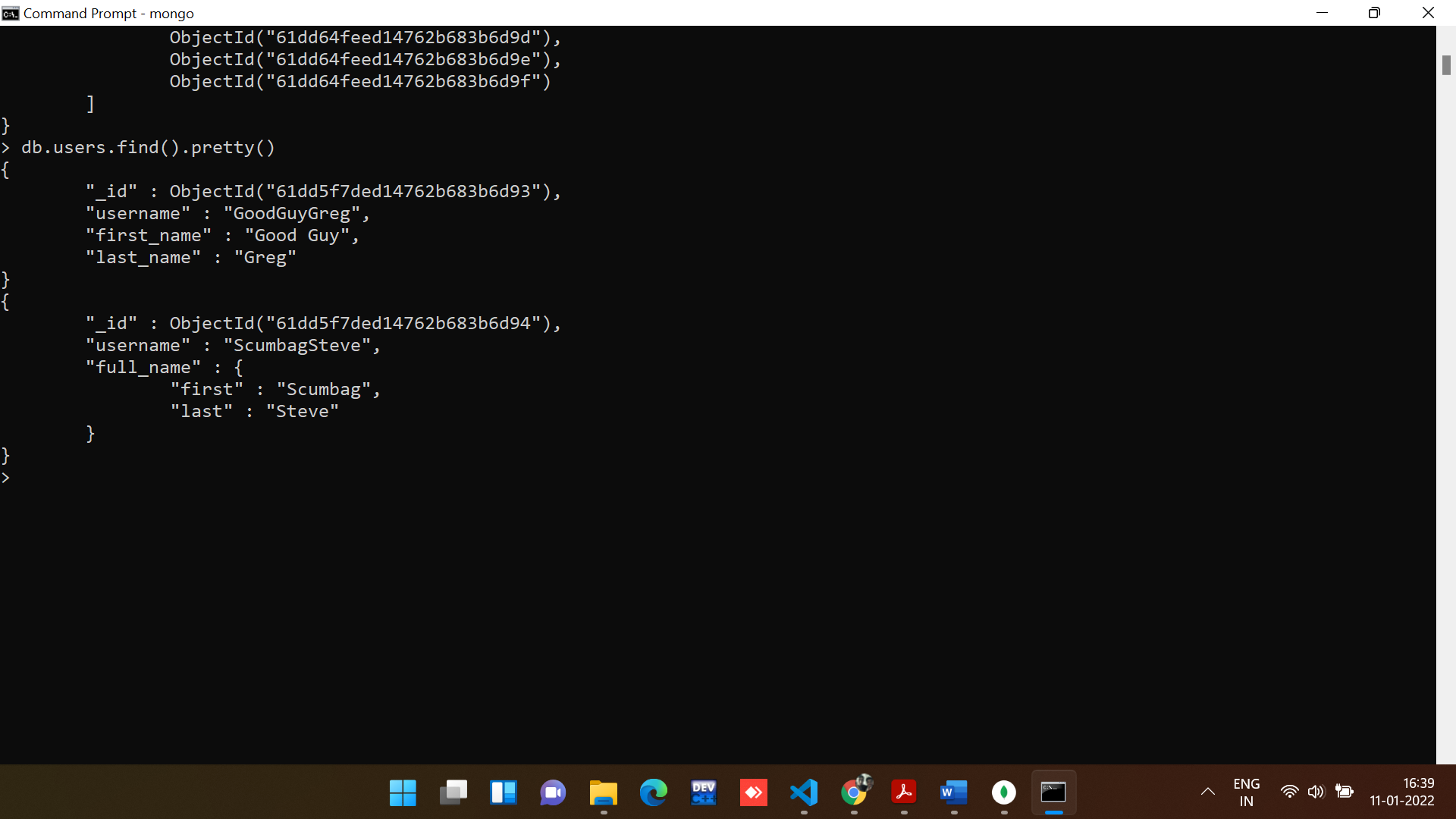
    ],

  },

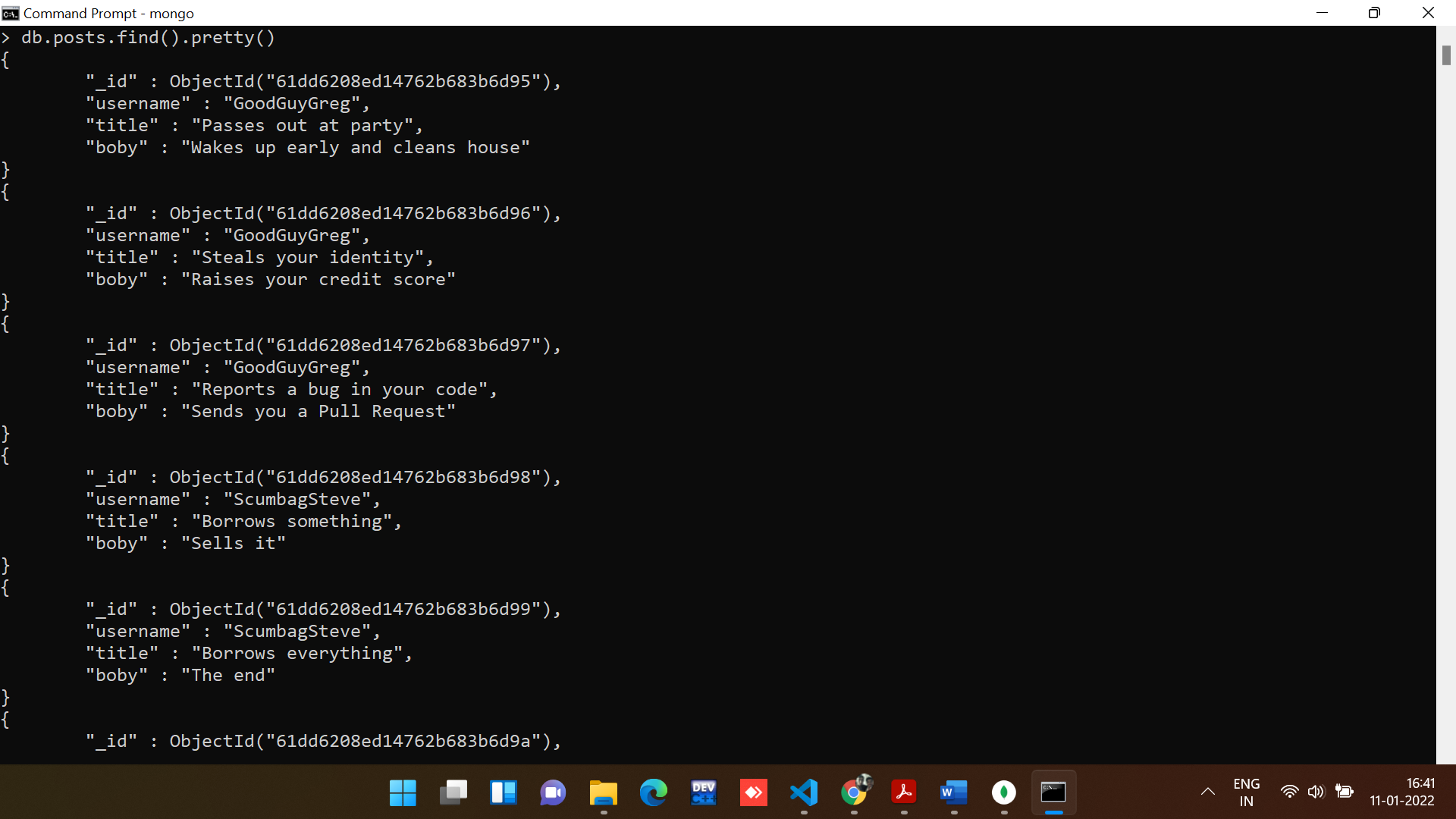
]);

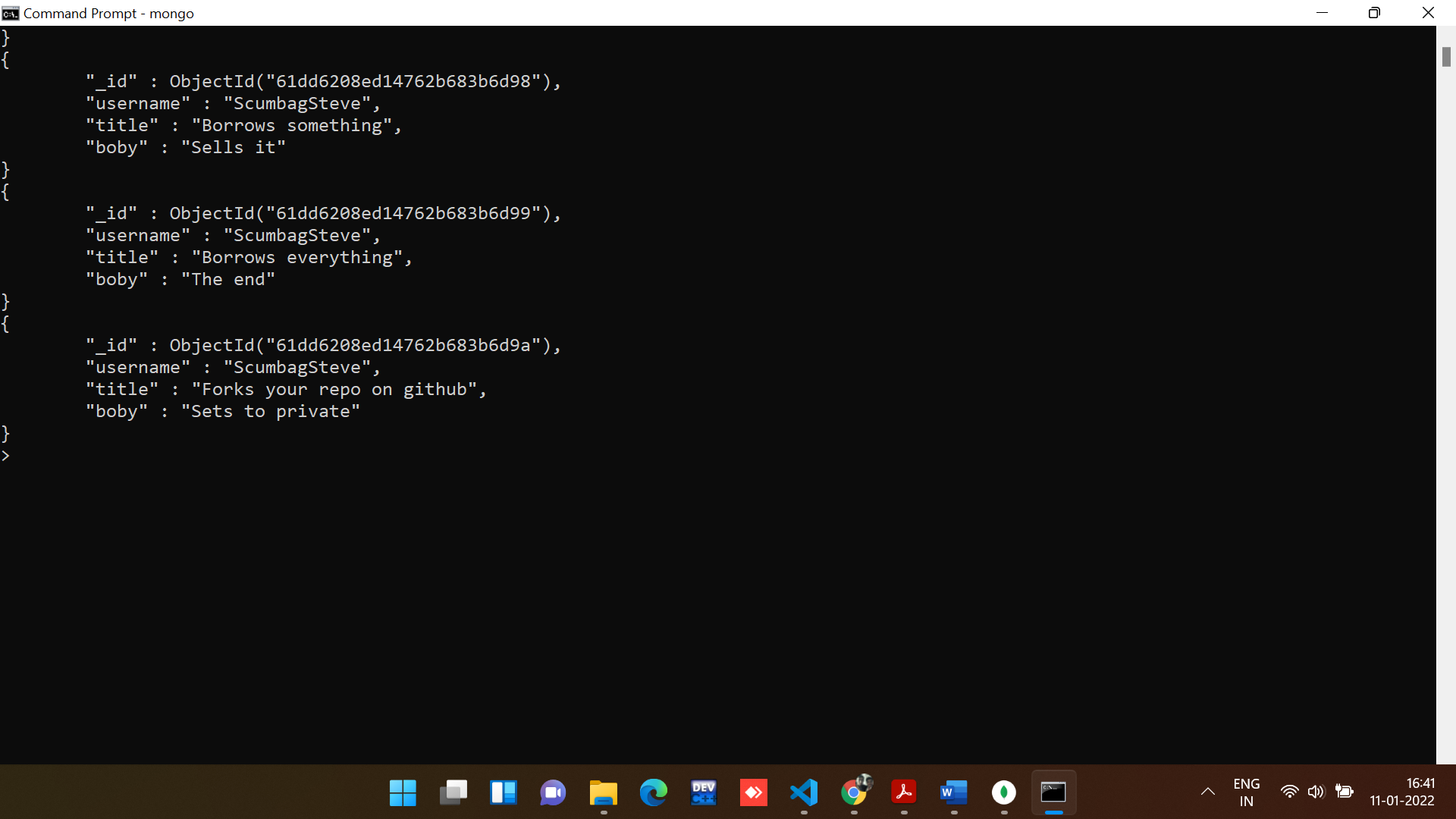


1. find all users

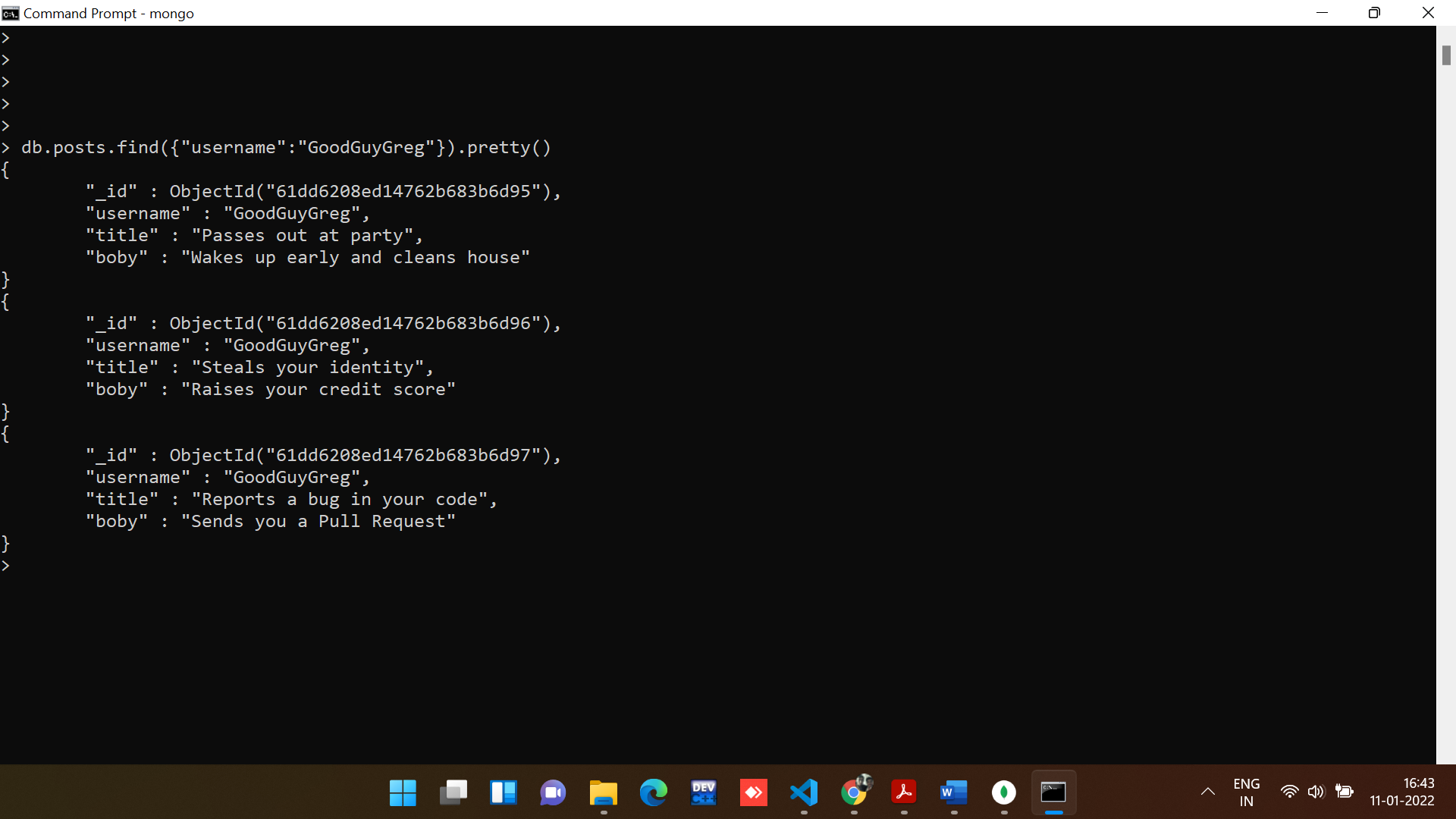


2. find all posts

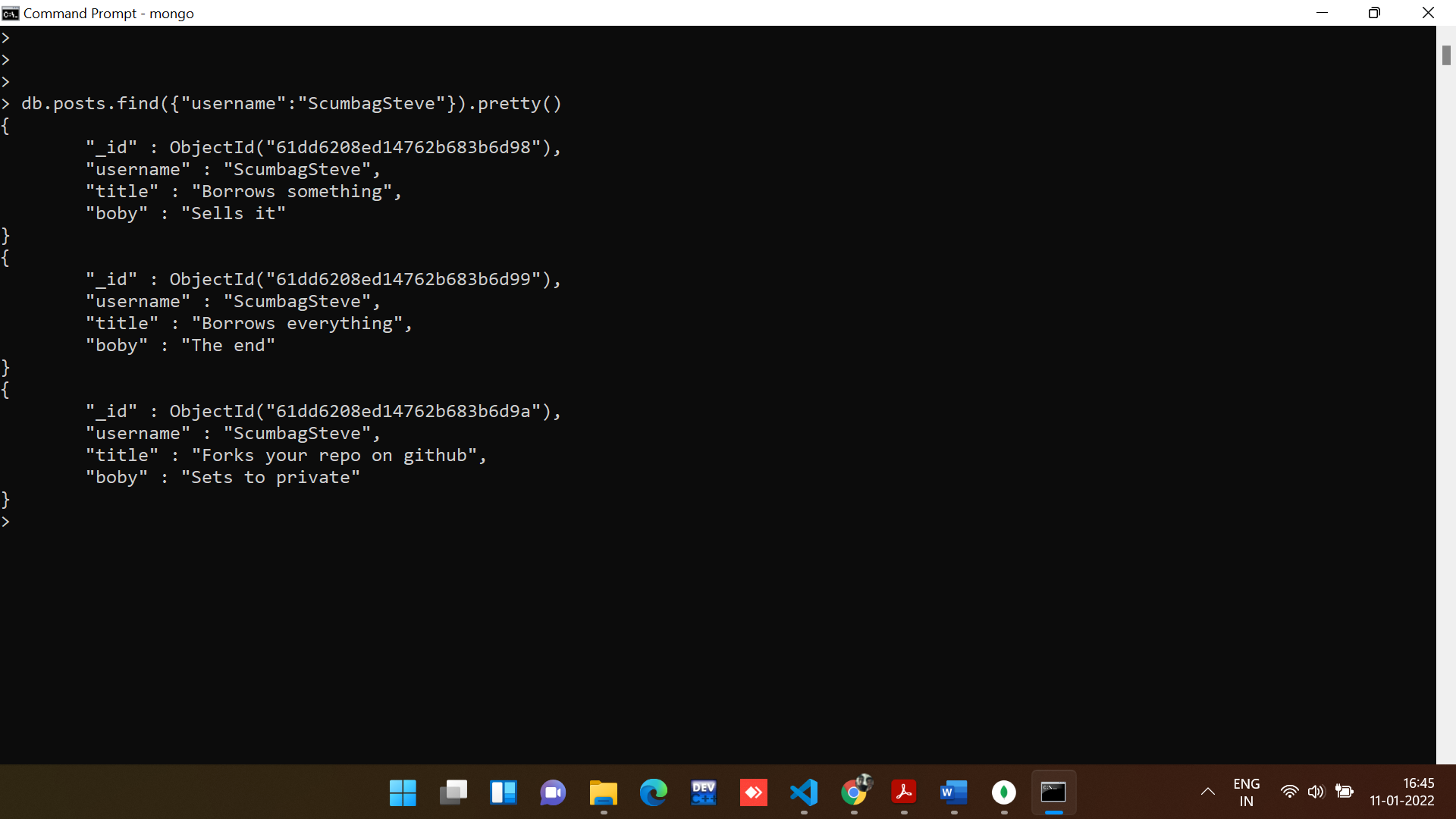




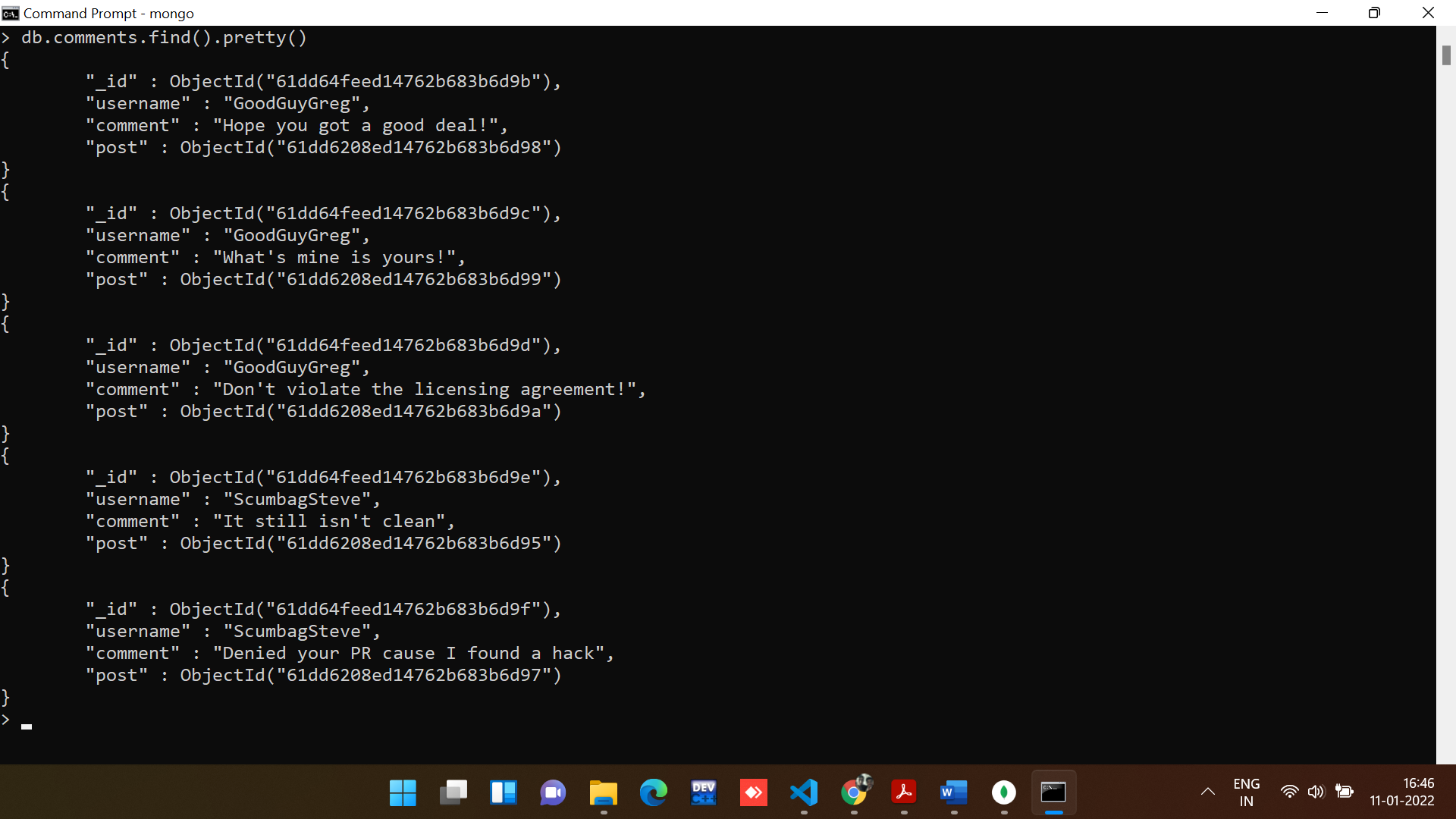
3. find all posts that was authored by "GoodGuyGreg"



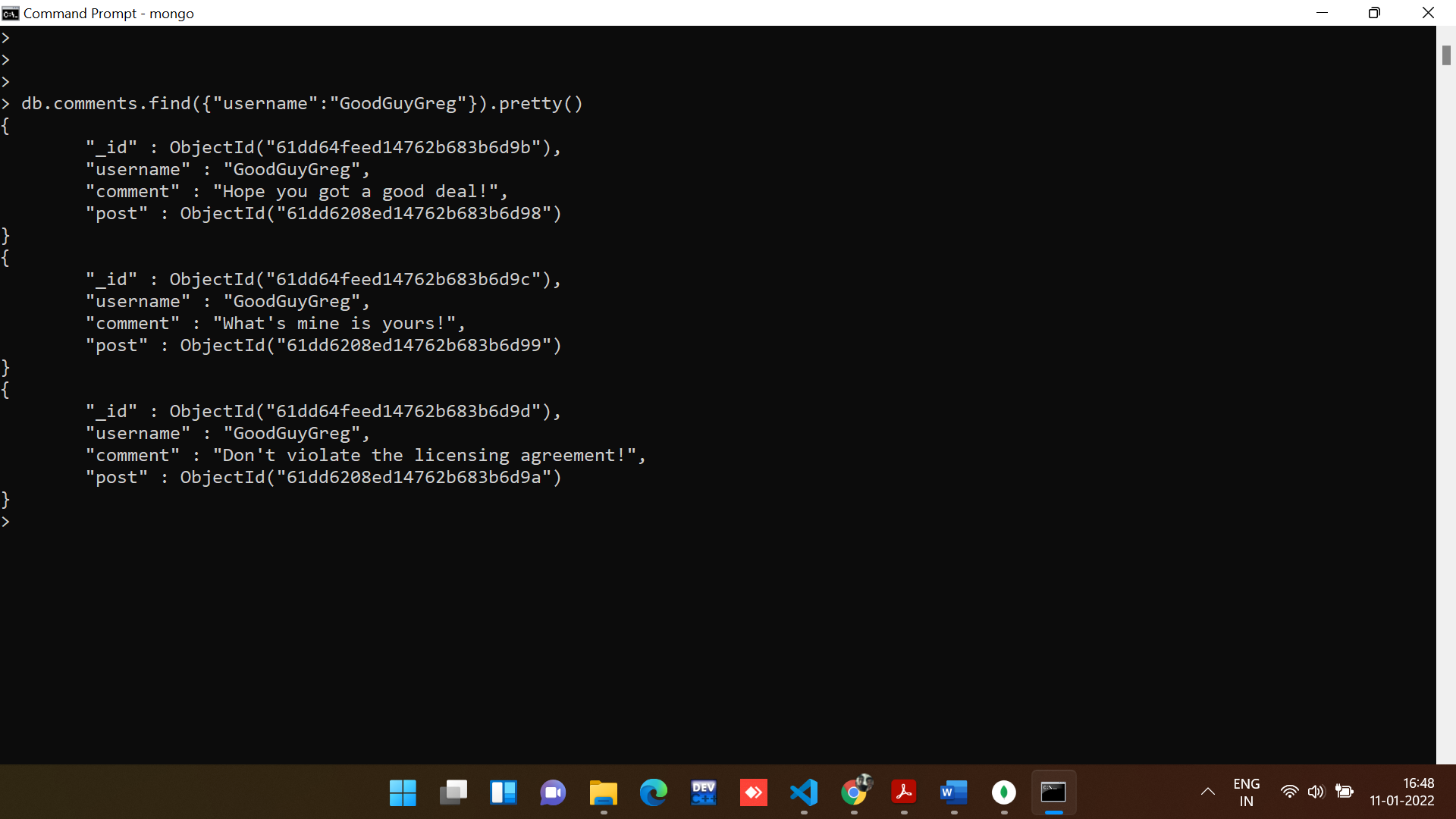
4. find all posts that was authored by "ScumbagSteve"



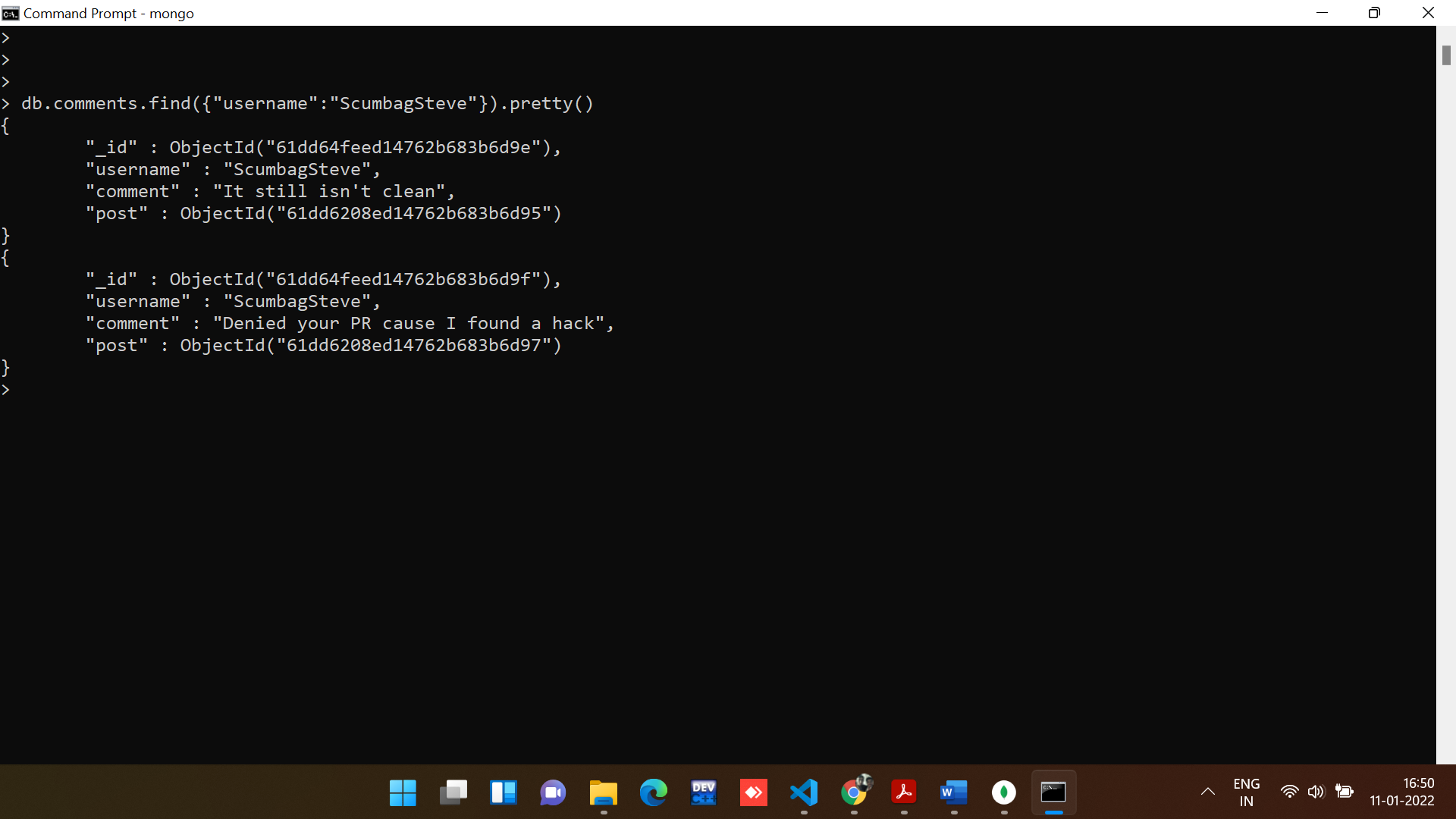
5. find all comments



6. find all comments that was authored by "GoodGuyGreg"



7. find all comments that was authored by "ScumbagSteve"



8. find all comments belonging to the post "Reports a bug in your code".

