Walchand College of Engineering, Sangli Department of Computer Science and Engineering

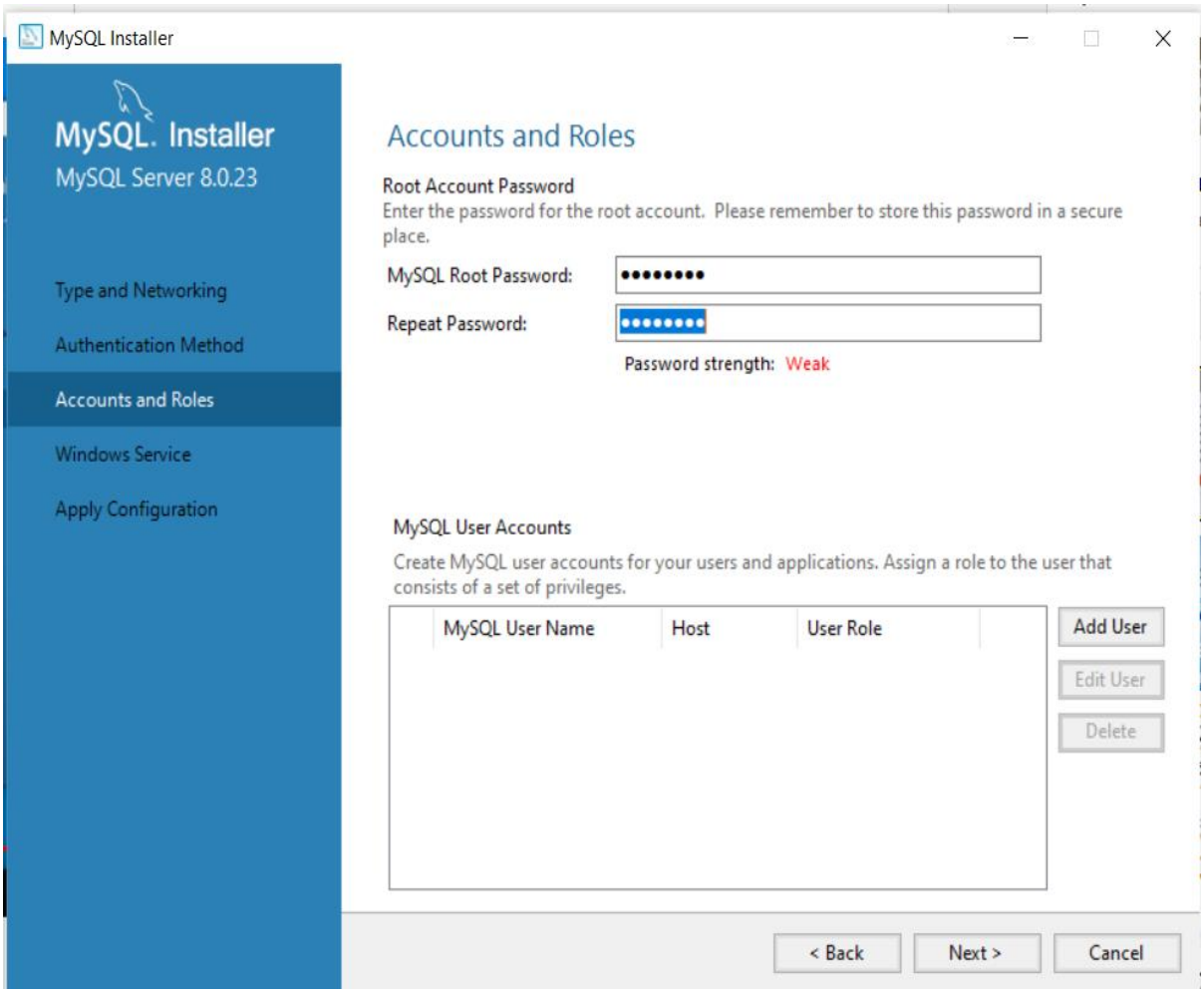
Practical No. 4

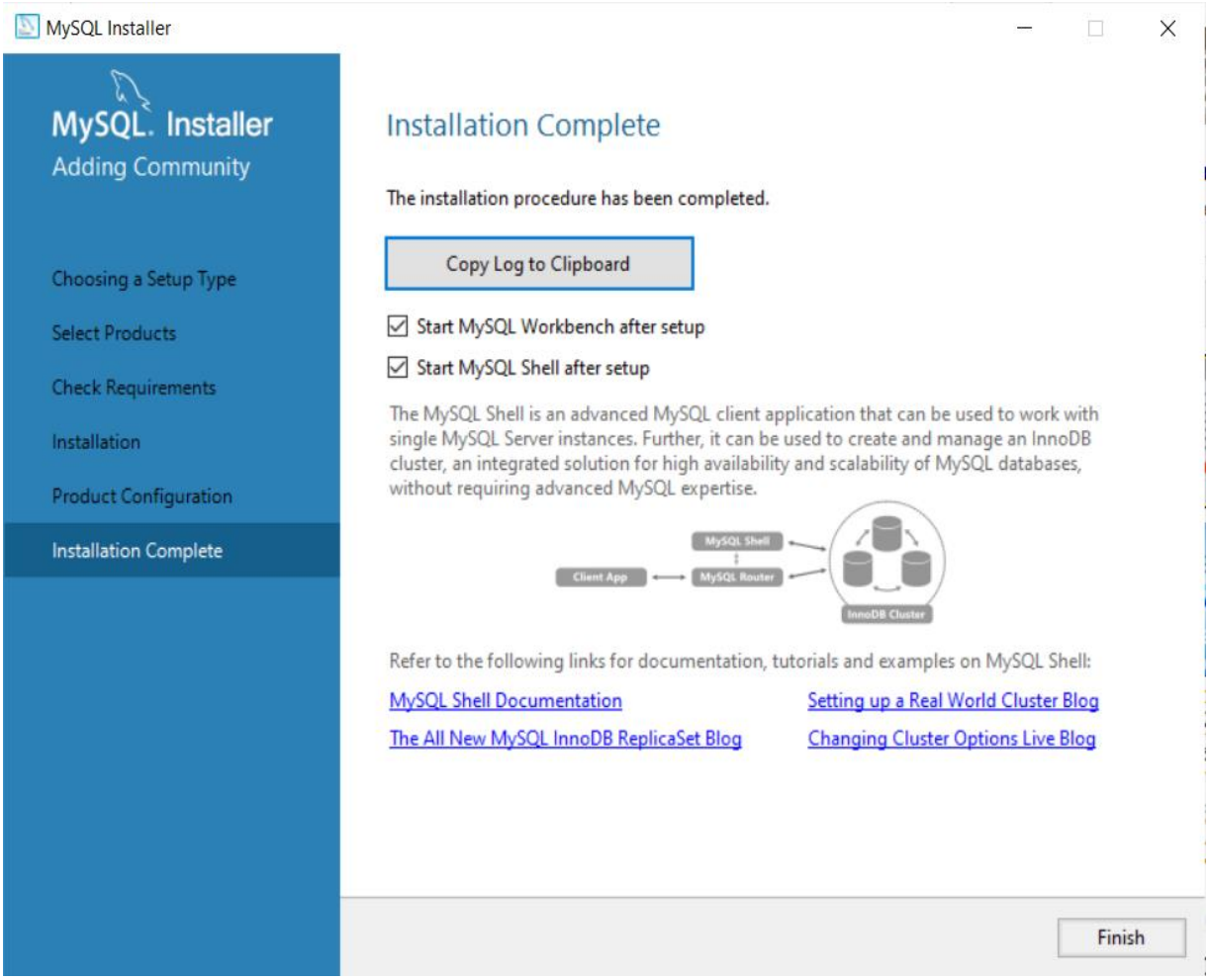
To connect and use database in Node.js Application.

NAME:POOJA VISHNU SHINDE
PRN NO:2018BTECS00042

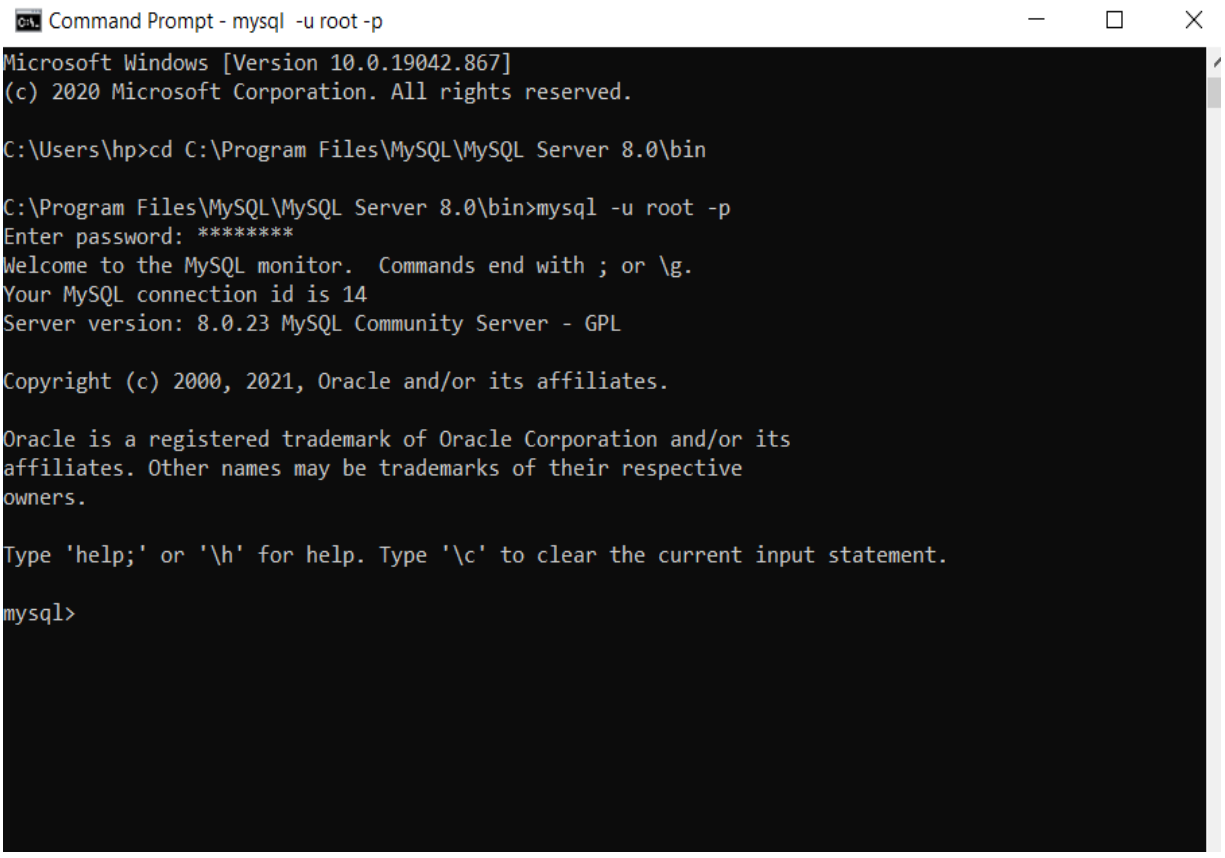
Problem Statement 1:

1. Install MySQL server on your machine by clicking and downloading the following link. (https://dev.mysql.com/downloads/mysql/)

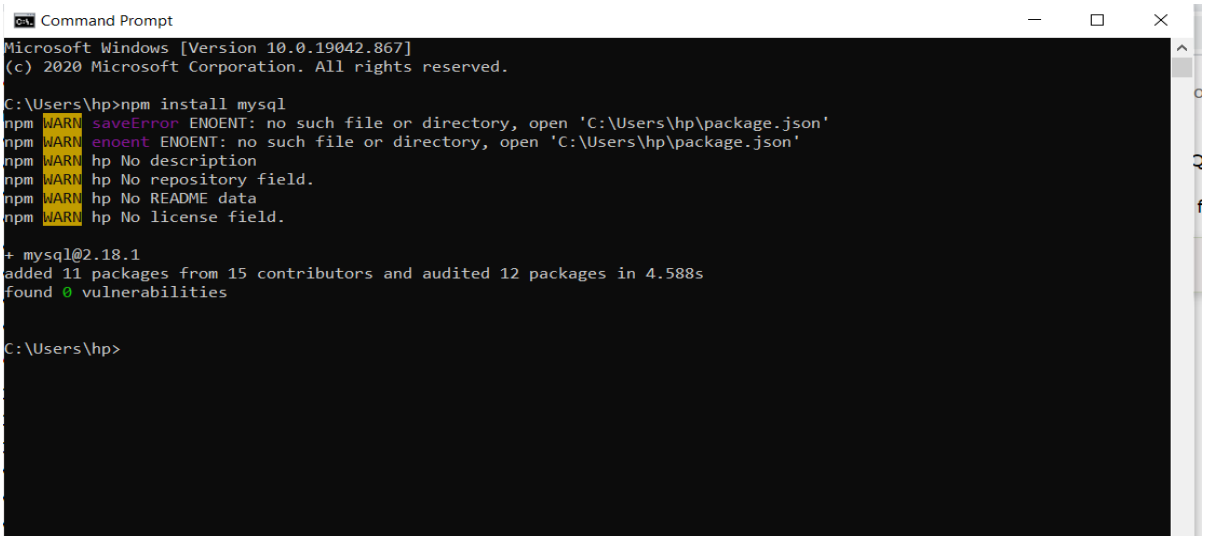


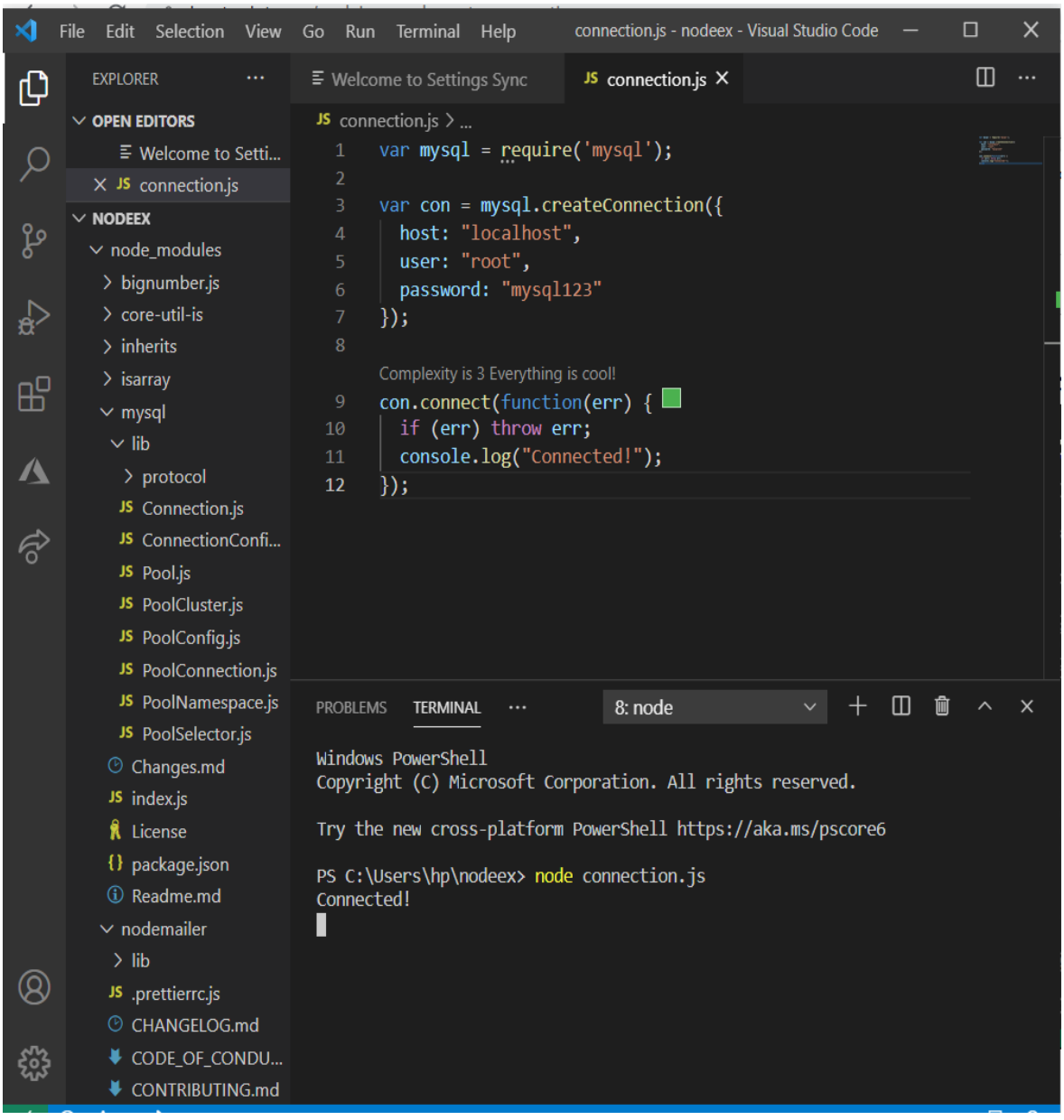


2. Configure and run MySQL server.



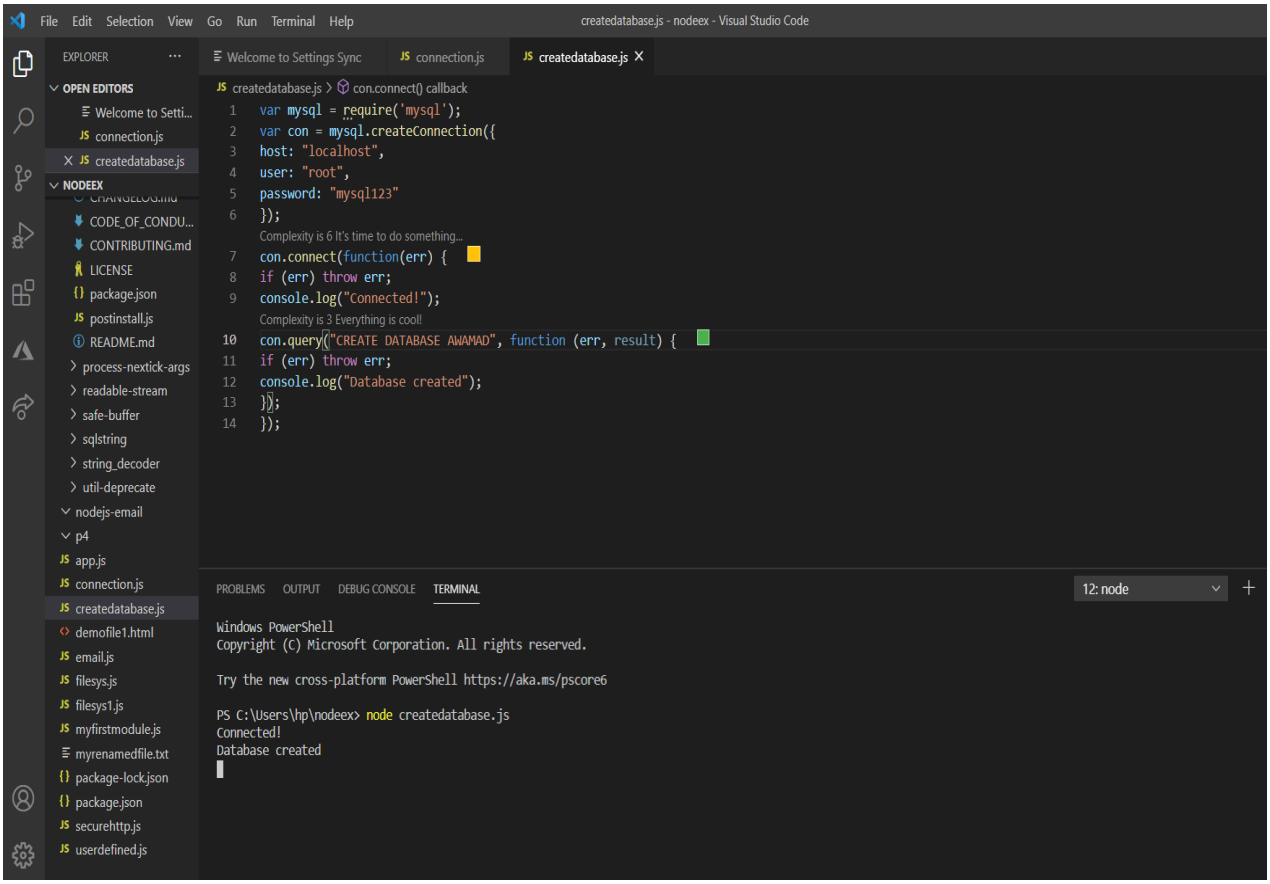
3. Install ‘mysql’ external module in your current working directory using npm.



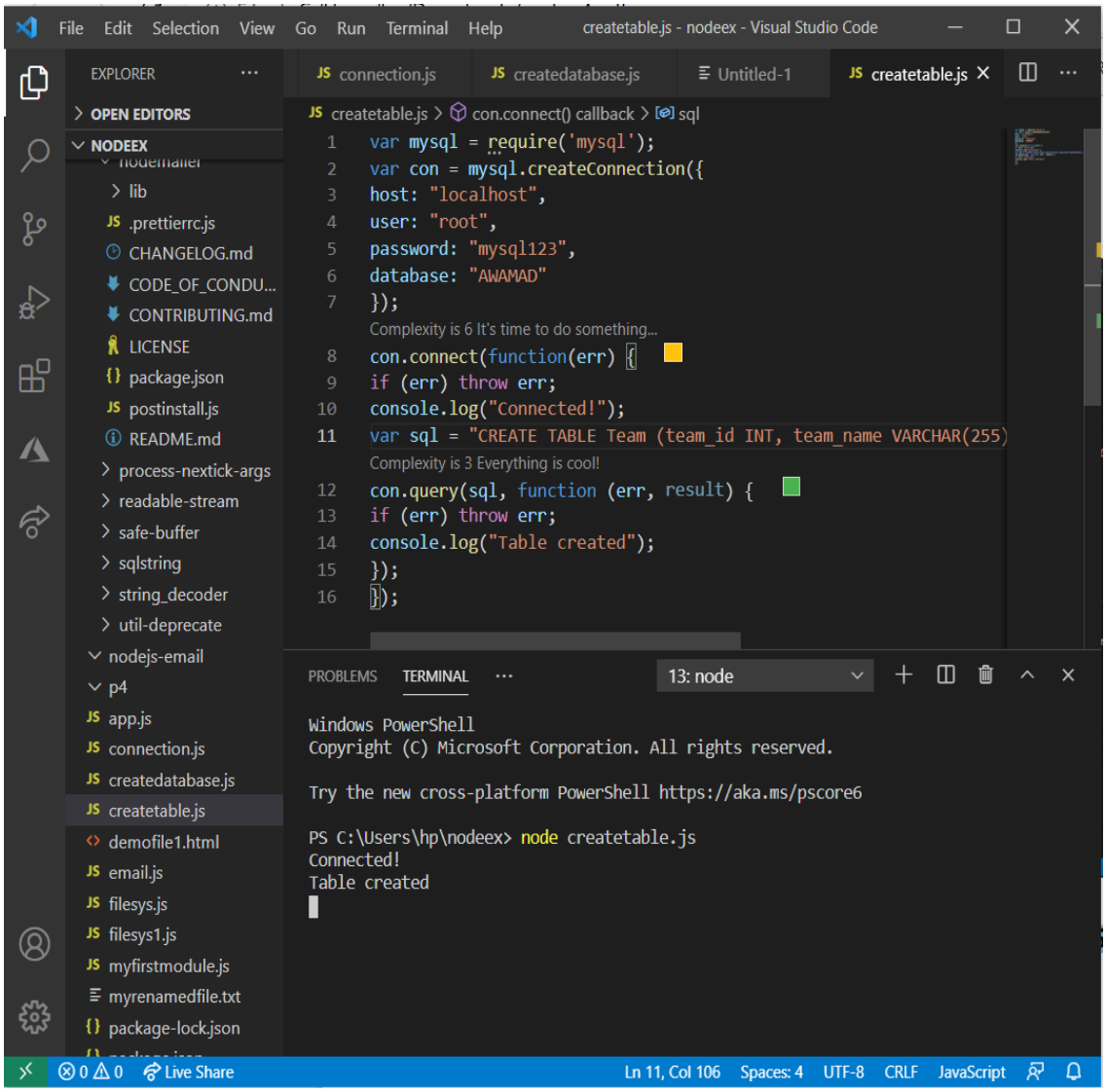


Problem Statement 2:

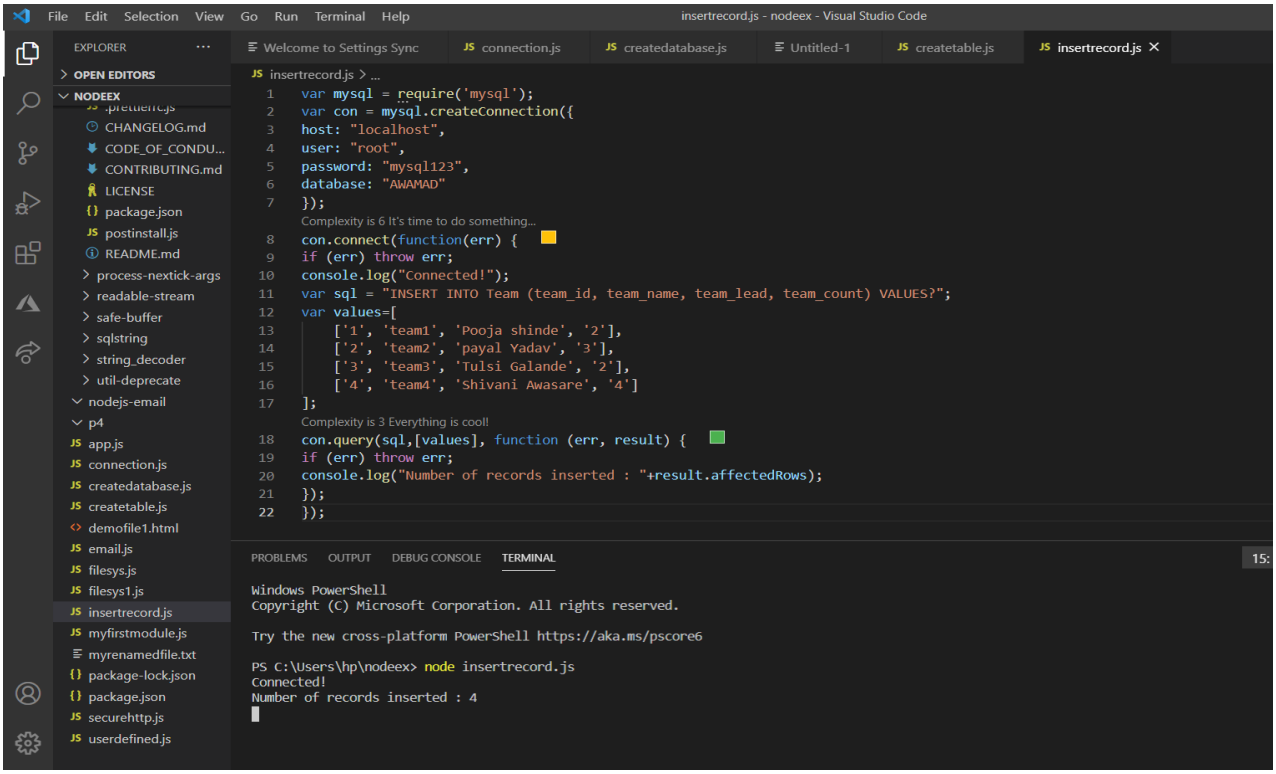
1. Write a Node.js Application to create a database named ‘AWAMAD’ by connecting to MySQL server.



2. Write a Node.js Application to create a table named
    a. **Batch T8** – ‘Team’ with columns ‘team_id’, ‘team_name’, ‘team_lead’, and ‘team_count’.

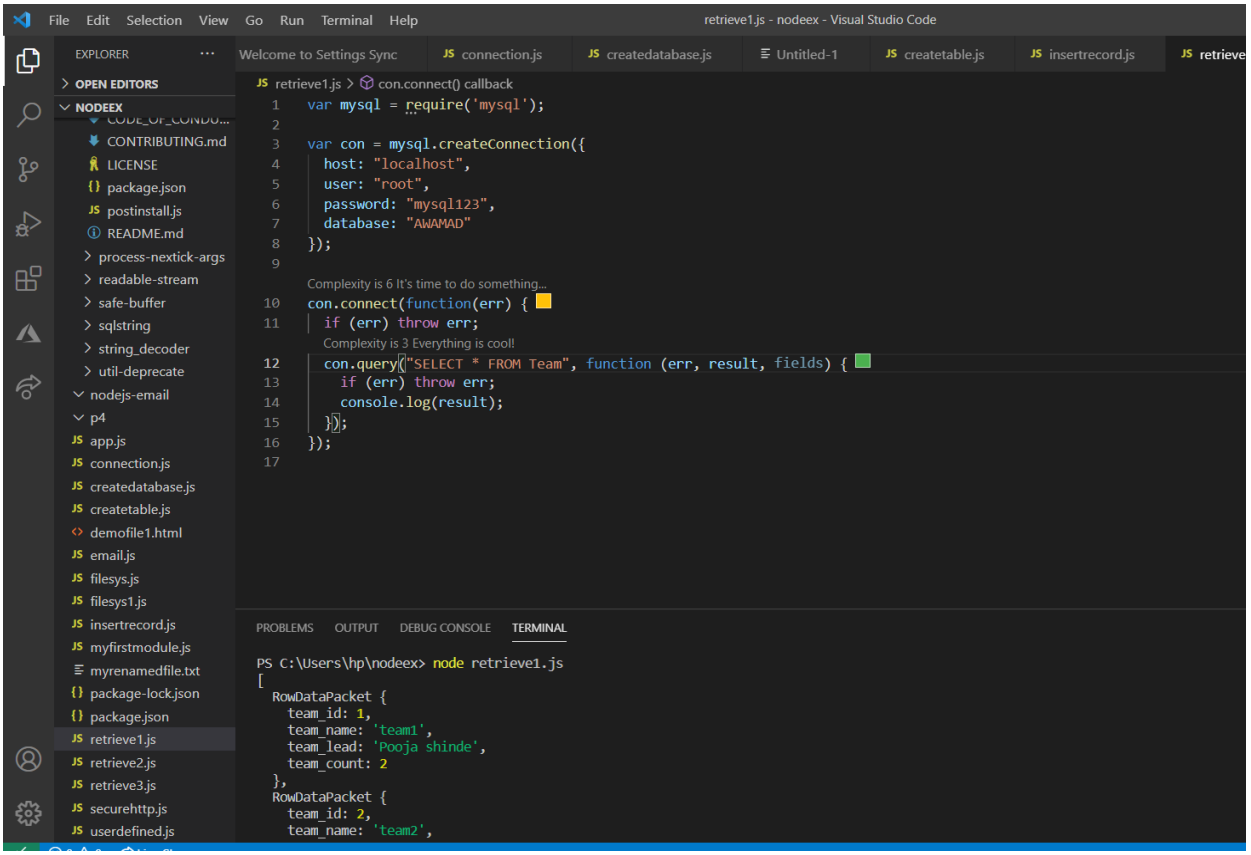

File Edit Selection View Go Run Terminal Help
createtable.js - nodeex - Visual Studio Code
EXPLORER
OPEN EDITORS
NODEEX
lib
.prettierrc.js
CHANGELOG.md
CODE_OF_CONDU...
CONTRIBUTING.md
LICENSE
package.json
postinstall.js
README.md
process-nextick-args
readable-stream
safe-buffer
sqlstring
string_decoder
util-deprecate
nodejs-email
p4
app.js
connection.js
createdatabase.js
createtable.js
demofile1.html
email.js
filesys.js
filesys1.js
myfirstmodule.js
myrenamedfile.txt
package-lock.json
connection.js
createdatabase.js
Untitled-1
createtable.js
createtable.js > con.connect() callback > sql
1 var mysql = require('mysql');
2 var con = mysql.createConnection({
3 host: "localhost",
4 user: "root",
5 password: "mysql123",
6 database: "AWAMAD"
7 });
Complexity is 6 It's time to do something...
8 con.connect(function(err) {
9 if (err) throw err;
10 console.log("Connected!");
11 var sql = "CREATE TABLE Team (team_id INT, team_name VARCHAR(255)
Complexity is 3 Everything is cool!
12 con.query(sql, function (err, result) {
13 if (err) throw err;
14 console.log("Table created");
15 });
16 });
PROBLEMS
TERMINAL
13: node
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Try the new cross-platform PowerShell https://aka.ms/pscore6
PS C:\Users\hp\nodeex> node createtable.js
Connected!
Table created
0 0
Live Share
Ln 11, Col 106
Spaces: 4
UTF-8
CRLF
JavaScript

3. Write a Node.js application to insert the data in the appropriate table.

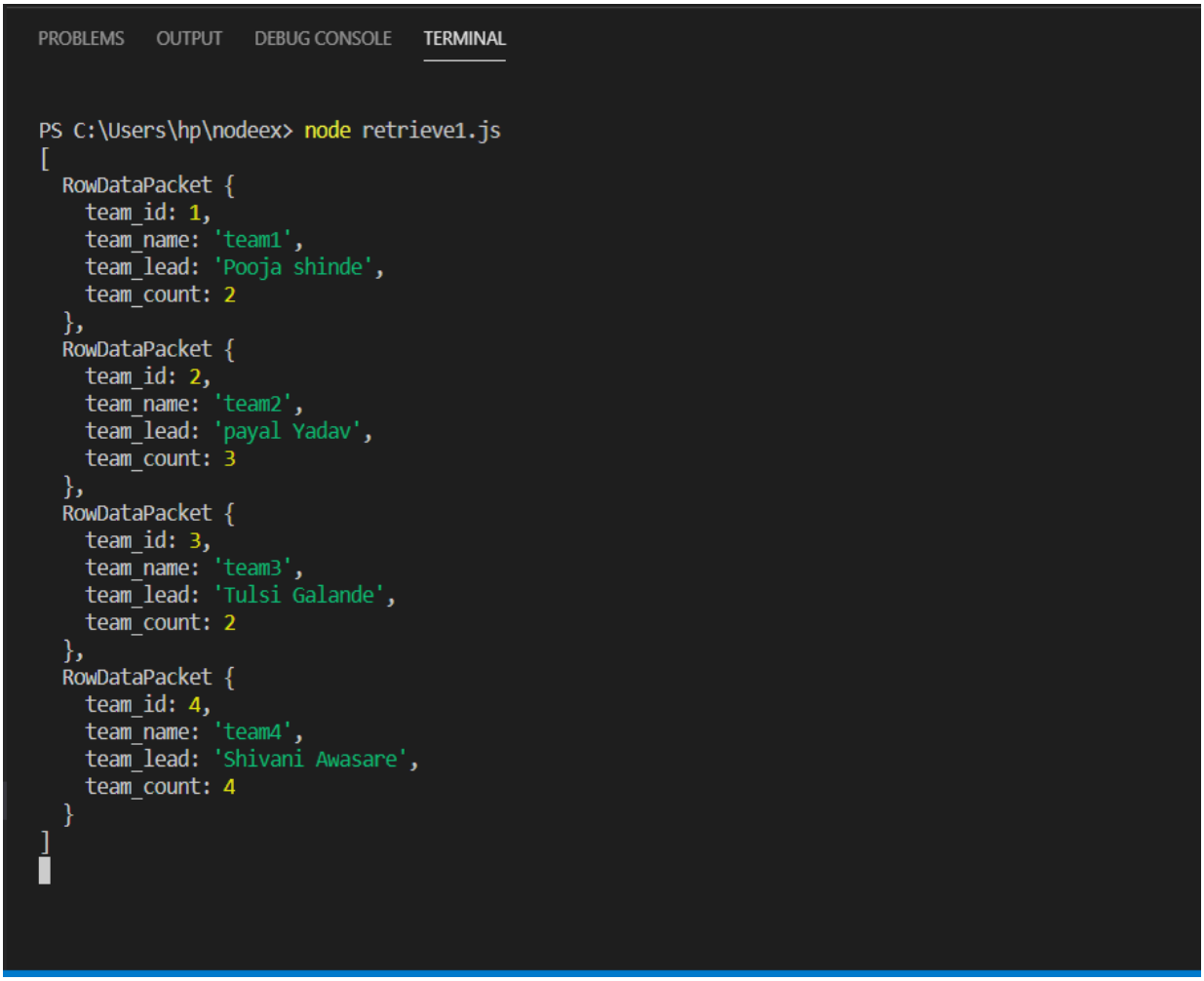


4. Write a Node.js Application to retrieve the data from the selected table and display it on the console. (Use different queries to retrieve the data from the table.)

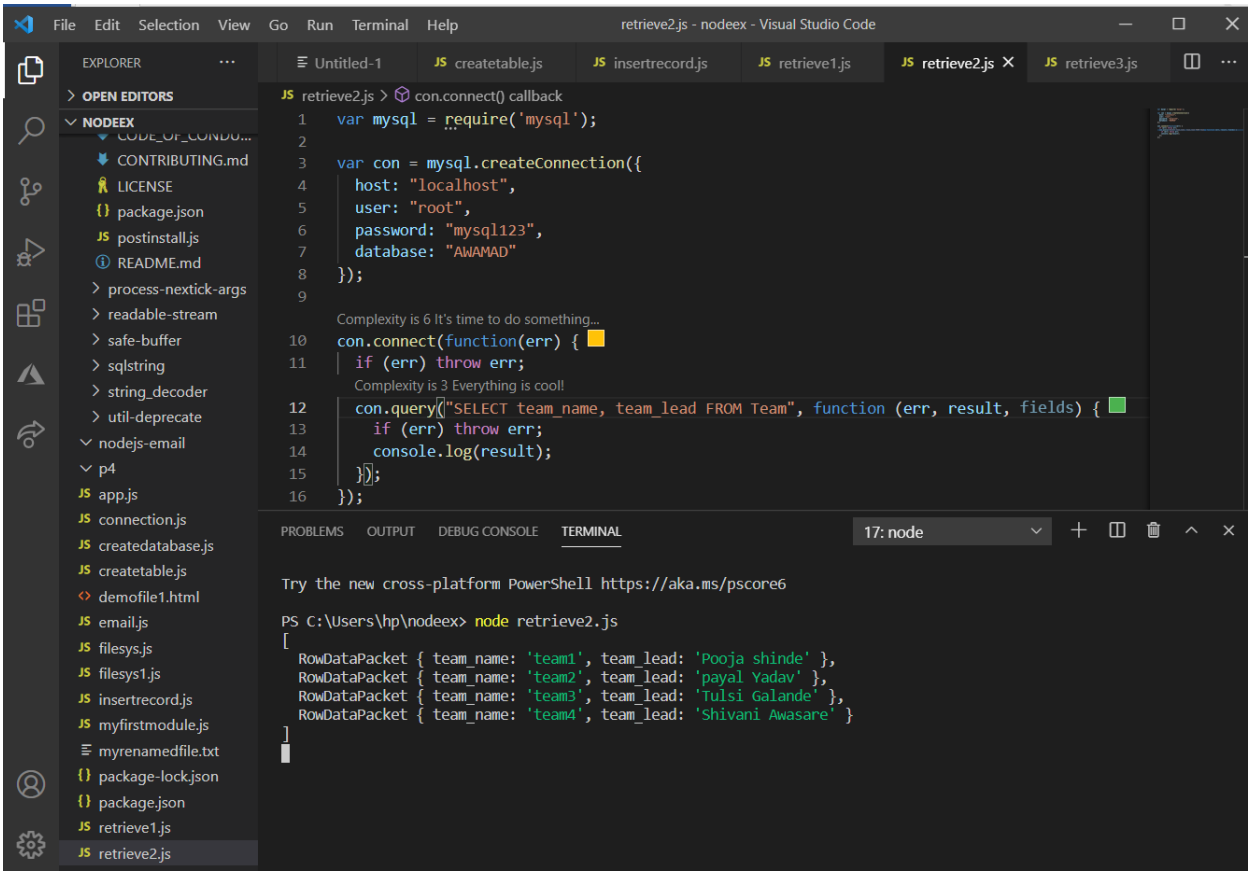
#1



Output:


PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PS C:\Users\hp\nodeex> node retrieve1.js
[
RowDataPacket {
team_id: 1,
team_name: 'team1',
team_lead: 'Pooja shinde',
team_count: 2
},
RowDataPacket {
team_id: 2,
team_name: 'team2',
team_lead: 'payal Yadav',
team_count: 3
},
RowDataPacket {
team_id: 3,
team_name: 'team3',
team_lead: 'Tulsi Galande',
team_count: 2
},
RowDataPacket {
team_id: 4,
team_name: 'team4',
team_lead: 'Shivani Awasare',
team_count: 4
}
]

#2


File Edit Selection View Go Run Terminal Help
retrieve2.js - nodeex - Visual Studio Code
EXPLORER
OPEN EDITORS
NODEEX
CONTRIBUTING.md
LICENSE
package.json
postinstall.js
README.md
process-nextick-args
readable-stream
safe-buffer
sqlstring
string_decoder
util-deprecate
nodejs-email
p4
app.js
connection.js
createdatabase.js
createtable.js
demofile1.html
email.js
filesys.js
filesys1.js
insertrecord.js
myfirstmodule.js
myrenamedfile.txt
package-lock.json
package.json
retrieve1.js
retrieve2.js
Untitled-1
createtable.js
insertrecord.js
retrieve1.js
retrieve2.js
retrieve3.js
retrieve2.js > con.connect() callback
var mysql = require('mysql');
var con = mysql.createConnection({
host: "localhost",
user: "root",
password: "mysql123",
database: "AWAMAD"
});
Complexity is 6 It's time to do something...
con.connect(function(err) {
if (err) throw err;
Complexity is 3 Everything is cool!
con.query("SELECT team_name, team_lead FROM Team", function (err, result, fields) {
if (err) throw err;
console.log(result);
});
});
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
17: node
Try the new cross-platform PowerShell https://aka.ms/pscore6
PS C:\Users\hp\nodeex> node retrieve2.js
[
RowDataPacket { team_name: 'team1', team_lead: 'Pooja shinde' },
RowDataPacket { team_name: 'team2', team_lead: 'payal Yadav' },
RowDataPacket { team_name: 'team3', team_lead: 'Tulsi Galande' },
RowDataPacket { team_name: 'team4', team_lead: 'Shivani Awasare' }
]