

1. NODEJS Program to display "hello world"

```
const http = require("http")

http.createServer( ( request, response)=>{

    response.writeHead( 200,{

        'Content-Type': 'text/Plain'

    });

    response.end("HELLO WORLD");

}).listen(3000);


console.log("Server runnig on localhost:3000");
```

2. NODEJS program to perform the following FILE I/O operations

i) write ii) read iii) append

```
const fs = require("fs")
// Reading from file
const readMe =fs.readFileSync('text.txt','utf-8');
console.log("Reading Files");
console.log(readMe);

// Writing
const content = "This Program is read and write file"
fs.writeFile('text.txt',content,(err)=>{
  if(err)
    console.log(err);
  else{
    console.log("\n\n File written successfully \n");
    console.log(fs.readFileSync('text.txt','utf-8'));
  }
});
console.log(`After append result ${readMe}`);

// Append File
fs.appendFile("text.txt","\n Append word",(err)=>{
  if(err)
    throw(err)
  else{
    console.log("\n The Content of files is");
    console.log(fs.readFileSync('text.txt','utf-8'));
  }
})
```

3. Write a NODEJS program to perform – File Uploading

```
const http = require("http")
// npm i formidable
const formidable = require("formidable")

http.createServer((req, res)=>{
  if(req.url == '/fileupload'){
    const form = new formidable.IncomingForm();
    form.parse(req, (err, fields, files)=>{
      res.write("File Uploaded")
      res.end();
    })
  }else{
    res.writeHead(200, {
      'Content-type' : 'text/html'
    });
    res.write('<form action="fileupload" method="post">')
    res.write('<input type="file" name="fileupload">')
    res.write("<br>")
    res.write("<input type='submit'>")
    res.write("</form>")
    return res.end()
  }
}).listen(3000)

console.log("Server is running server on localhost:3000");
```

4. NODEJS database crud operation(connection, database, table, inserting records, update, delete).

```
const mysql = require("mysql2")

const dbConnection = mysql.createConnection({

  host: "localhost",

  user: "root",

  password: ""

})


// CREATING THE CONNECTION

dbConnection.connect( (err) =>{

  if(err)

    throw err;

  console.log("Connected");

})


// CREATING DATA BASE

const sqlDatabase = "CREATE DATABASE IF NOT EXISTS db56 "

dbConnection.query(sqlDatabase, (err, result) =>{

  if(err)

    throw err

  console.log("\n Data Base Created");

})


// CREATING TABLE

const sqlTable = "CREATE TABLE IF NOT EXISTS db56.cust "+

  "(cname varchar(25), c_add varchar(50))"

dbConnection.query(sqlTable, (err, result) =>{

  if(err)

    throw err

  console.log("\n Created data Base");

})


// INSERING RECORD

const sqlInsert = "INSERT INTO db56.cust VALUES "+
```

```

                "('cust', 'Manglore')"
```

`dbConnection.query(sqlInsert, (err, result) => {
 if (err)
 throw err
 console.log("Data Inserted Sucessfully");
})

// RETRIVING THE DATA FROM TABLE

const sqlDisplay = "SELECT * FROM db56.cust"
dbConnection.query(sqlDisplay, (err, result) => {
 if (err)
 throw err
 console.log(result);
})

// DELETING DATA

const sqlDelete = "DELETE FROM db56.cust WHERE cname='cust'";
dbConnection.query(sqlDelete, (err, result) => {
 if (err)
 throw err
 console.log("Successfully deleted "+result.affectedRows+" rows");
})

// MULTIPLE VALUES

const sqlMultiInsert = "INSERT INTO db56.cust VALUES ?"
const values = [
 ['cust1', 'Manglore'],
 ['cust2', 'Banglore'],
 ['cust3', 'Mumbai']
]

dbConnection.query(sqlMultiInsert, [values], (err, result) => {
 if (err)
 throw err
 console.log("Number record result is "+result.affectedRows);
}`

```
})
```

```
// UPDATE
```

```
const sqlUpdate = "UPDATE db56.cust SET cname='cust33'"+  
                  "WHERE c_add='Mumbai' "
```

```
dbConnection.query(sqlUpdate,(err,result)=>{
```

```
    if(err)
```

```
        throw err
```

```
    console.log("Updated number rows =" +result.affectedRows);
```

```
})
```

5. NODEJS user modules (object, literal and object properties)

```
const http = require('http');
const myModule = require("./nodeModule")

http.createServer( (req,res)=>{
  res.writeHead(200,{
    'Content-Type' : 'text/html'
  })
  res.write("The text is "+myModule.myModule())
  res.end()
}).listen(3000)
```

nodeModule.js

```
module.exports.myModule = () =>{
  return Date()
}
```