[Company Name]

**[**Street Address, City, ST ZIP Code]

[Phone]

[Email]

**[**Website]

1. How to check nodejs version

node –v

1. **How to check npm version**

**npm –v**

1. **How to run nodejs file**

**node filename**

1. **First program**

**Console.log(“hello brijesh”);**

1. **REPL = used to experiment with nodeis code and debug javascript codes.**

**node**

**for entering in REPL environment**

**.exit**

**Example**

**1.js expression**

**3+3**

**10/5**

**2.use variables**

**var a = ‘brijesh’**

**a**

**var b = ‘sahani’**

**b**

**a+b**

**3. multiline code**

**Var x = 0;**

**do**

**{**

**x++;**

**console.log(‘my x value is ${x}’);**

**}while(x<5);**

**4.use (\_) to get last result**

**To fetch last result like( \_+5 )**

1. **Editor mode**

**.editor**

* **Core module(File System) synchronous**

**1.create sunc file**

const fs =require("fs");

fs.writeFileSync('read.txt',"welcome to file");

**if file exist then override file data.**

**2.append file data**

fs.appendFileSync('read.txt',"how r u");

**3.buffer to store binary data**

const buf\_data = fs.readFileSync('read.txt');

console.log(buf\_data);

**4. buffer to string data**

const buf\_data = fs.readFileSync('read.txt');

console.log(buf\_data);

org\_data = buf\_data.toString();

console.log(org\_data);

**or**

const buf\_data = fs.readFileSync('read.txt', 'utf8');

console.log(buf\_data);

**5. rename file name**

//to rename file name

fs.renameSync('read.txt','raedwrite.txt');

**all in one file**

const fs =require("fs");

//to create new filr or update data in exsiting file

fs.writeFileSync('read.txt',"welcome to file");

// not override add new data

fs.appendFileSync('read.txt',"how r u");

//read file

fs.readFileSync('read.txt');

//show buffer data

const buf\_data = fs.readFileSync('read.txt');

console.log(buf\_data);

// show original data

org\_data = buf\_data.toString();

console.log(org\_data);

//to rename file name

fs.renameSync('read.txt','raedwrite.txt');

**6.make folder**

//create folder

fs.mkdirSync('new');

**PS E:\nodejs> node index.js**

**7. delete file**

fs.unlinkSync('filename.js');

**8. delete folder**

fs.rmdirSync('filename.js');

* **Core module(File System) asynchronous**

const fs = require("fs");

fs.writeFile("asy.txt","hi brijesh", ()=> {

    console.log("created file");

});

fs.appendFile("asy.txt","updated file", ()=> {

    console.log("updated file");

});

fs.readFile("asy.txt","utf-8", (error,data)=> {

    console.log(data);

});

* **OS Module**

const os = require('os');

console.log(os.arch());

console.log(os.freemem());

console.log(os.totalmem());

console.log(os.hostname());

console.log(os.platform());

* **PathModule**

const path= require('path');

console.log(path.dirname("E:/nodejs/PathModule/path.js"));

console.log(path.extname("E:/nodejs/PathModule/path.js"));

console.log(path.basename("E:/nodejs/PathModule/path.js"));

//show in object

console.log(path.parse("E:/nodejs/PathModule/path.js"));

//access object properties

const oo =  path.parse("E:/nodejs/PathModule/path.js");

console.log(oo.name);

console.log(oo.root);

* **How to Create and Exports own module**

1. **Index.js**

const operator = require("./operator")

console.log(operator.add(5,2));

console.log(operator.sub(5,3));

**or**

const {add,sub} = require("./operator")

console.log(add(5,8));

console.log(sub(5,1));

1. **Operator.js**

const add =(a,b)=> {

  return a+b;

};

const sub = (a,b) => {

  return a-b;

}

module.exports.add= add;

module.exports.sub=sub;

**or**

const add =(a,b)=> {

  return a+b;

};

const sub = (a,b) => {

  return a-b;

}

module.exports= {add,sub};

* **Module wrapping function**

(function(){

    var a="brijesh";

    console.log(a);

})();

* **Create and routing own server using http module**

const http = require('http');

const server = http.createServer((req,res)=>{

    if(req.url == "/")

    {

        res.end("hello i am your ssrver... brijesh");

    }

    else if(req.url == "/about")

    {

        res.end("about page");

    }

    else if(req.url == "/contact")

    {

        res.end("contact page");

    }

    else

    {

        res.writeHead(404);//show error 404 otherwise success 200

       res.end("not found");

    }

});

server.listen(8000,"127.0.0.1",()=>{

    console.log("listening on portno 8000")

});

* **Event Module in Node js**

const EventEmitter = require('events'); // class

const event = new EventEmitter(); // object

event.on("show",()=> { //call

    console.log("hi");

});

event.on("show",()=> {  //call

    console.log("hello");

});

event.emit("show"); // create