

Practical No:1

1) Create an application to demonstrate Node.js Modules.

1.Helloworld

```
console.log("hello world");  
console.error("this is a wrong method")
```

Output:

```
PS C:\WT> node helloworld.js  
hello world  
this is a wrong method
```

2.continuation passing style

```
function displayresult(some)  
{  
  console.log(some);  
}  
function multiply(x,y,callback)  
{  
  let z=x*y;  
  callback(z);  
}  
multiply(3,5,displayresult)
```

output:

```
PS C:\WT> node continuationpass.js  
15
```

3.callback function

```
const message=function()  
{  
  console.log("hi MCA SEM 1")  
}  
setTimeout(message,3000);  
setTimeout(() =>  
{  
  console.log("calling from arrow function");  
},3000);
```

Output:

```
node.js v18.12.1  
PS C:\WT> node callback.js  
hi MCA SEM 1  
calling from arrow function
```

4.create your own module

```
exports.myDateTime=function()  
{  
  return Date();  
}  
var dt=require('./ownmodule');  
console.log(dt.myDateTime());
```

Output:

```
Node.js v18.12.1
PS C:\WT> node ownmodule.js
Tue Sep 24 2024 16:28:38 GMT+0530 (India Standard Time)
PS C:\WT> |
```

5.blocking code example

Input.txt

hello my name is purva ,I am a first year mca student

main.js

```
var fs=require("fs");
var data=fs.readFileSync("input.txt");
console.log(data.toString());
console.log("Program Ended");
```

Output:

```
PS C:\Users\ashish singh\Downloads\nodejs> node node5.js
hii I'm Ashish singh
Program Ended
```

b. Non blocking code example

```
var fs= require("fs");
fs.readFile('input.txt',function(err,data)
{
    if(err)return console.error(err);
    console.log(data.toString());
});
console.log("program ended");
```

Output:-

```
PS C:\Users\ashish singh\Downloads\nodejs> node node6.js
Program Ended
hii I'm Ashish
PS C:\Users\ashish singh\Downloads\nodejs> |
```