

Assignment No	2
Title	Using modules in Node.js
Objective	Create a module in node js with following functions A. to check whether given string is Palindrome B To check whether number is Armstrong C to find sum of digits of a given number
Roll No	MCA2511

**CODE:**

```
lab2.js
exports.myDtTime = function() {
    return Date();
}

exports.myMessage = function() {
    return("Hello World");
}

exports.Palindrome = function(str) {
    var rev = "";
    var str1 = str.toString();
    for(i=str1.length-1;i>0;i--)
    {
        rev = rev + str1.charAt(i);
    }
    if(str1==rev)
        return(str1 + " is palindrome");
    else
        return(str1 + " is not palindrome");
}

exports.sumofdigits = function(num)
{

```

```
temp=num;
sum=0;
while(temp>0)
{
    sum = sum + temp%10;
    temp = parseInt(temp/10);
}
return("Sum of digits of "+ num + " is " + sum);
}

exports.armstorng = function(num)
{
    temp=num;
    sum=0;
    while(temp>0)
    {
        sum = sum + Math.pow(temp%10, 3);
        temp = parseInt(temp/10);
    }
    if(num == sum)
        return (num + " is an ArmStrong Number");
    else
        return (num + " is not an ArmStrong Number")
}
```

#### uselab2.js

```
var uselab2 = require('./lab2.js');
console.log(uselab2.myMessage());
console.log(uselab2.myDtTime());
var str = "SFDHJA";
console.log(uselab2.Palindrome(str));
var num = 153;
console.log(uselab2.sumofdigits(num));
console.log(uselab2.armstorng(num));
```

**OUTPUT:**

```
PS C:\Users\mcamock\Desktop\WEB_LAB\node.js> node uselab2.js
Hello World
Sat Sep 20 2025 12:16:26 GMT+0530 (India Standard Time)
SFDHJA is not palindrome
Sum of digits of 153 is 9
153 is an ArmStrong Number
```