

Program No:	3
Roll No :	1525
Title of Program :	Apply following function in module with nodejs
Objective :	1. To understand basic of Node.js using functions A. Function in Node.js to sum two values B. Function in Node.js to find sum of numbers between two values C. Function in Node.js to find factorial of a number D. Function in Node.js to mimic functions of calculator ADD,SUBTRACT,etc

Source code:

```

exports.myDateTime = 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");
}

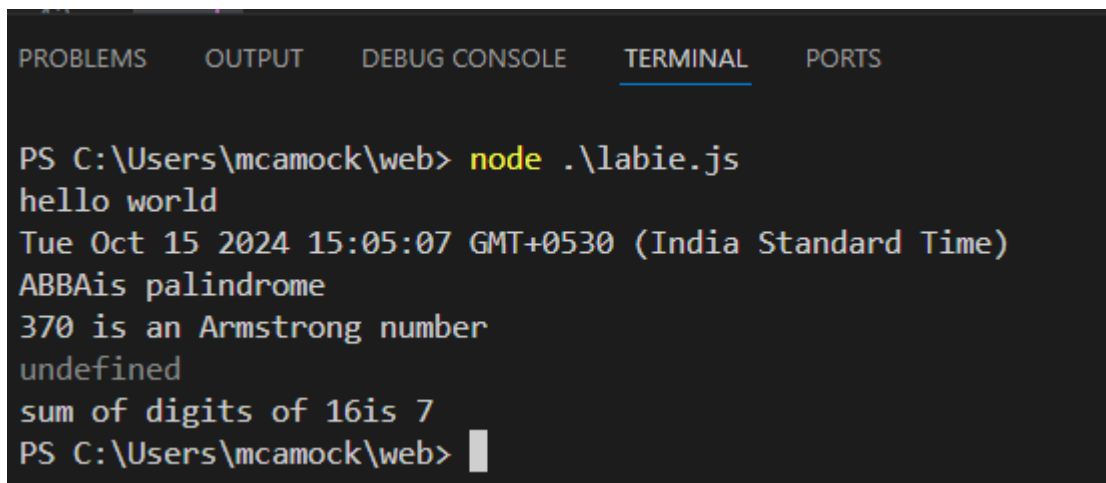
exports.armstrong = function(num) {
  let temp = num;
  let sum = 0;
  while (temp > 0) {
    let digit = temp % 10;
    sum += Math.pow(digit, 3);
    temp = parseInt(temp / 10);
  }
  if (num === sum) {
    console.log(num + " is an Armstrong number");
  } else {

```

```
    console.log(num + " isn't an Armstrong number");  
  }  
}
```

```
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);  
}
```

OUTPUT:



The image shows a terminal window with a dark background and light-colored text. At the top, there are five tabs: 'PROBLEMS', 'OUTPUT', 'DEBUG CONSOLE', 'TERMINAL' (which is selected and underlined), and 'PORTS'. The terminal content shows the execution of a Node.js script. The prompt is 'PS C:\Users\mcamock\web>'. The command entered is 'node .\labie.js'. The output consists of several lines: 'hello world', 'Tue Oct 15 2024 15:05:07 GMT+0530 (India Standard Time)', 'ABBAis palindrome', '370 is an Armstrong number', 'undefined', and 'sum of digits of 16is 7'. The prompt 'PS C:\Users\mcamock\web>' is shown again at the bottom with a cursor.

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS  
  
PS C:\Users\mcamock\web> node .\labie.js  
hello world  
Tue Oct 15 2024 15:05:07 GMT+0530 (India Standard Time)  
ABBAis palindrome  
370 is an Armstrong number  
undefined  
sum of digits of 16is 7  
PS C:\Users\mcamock\web> 
```