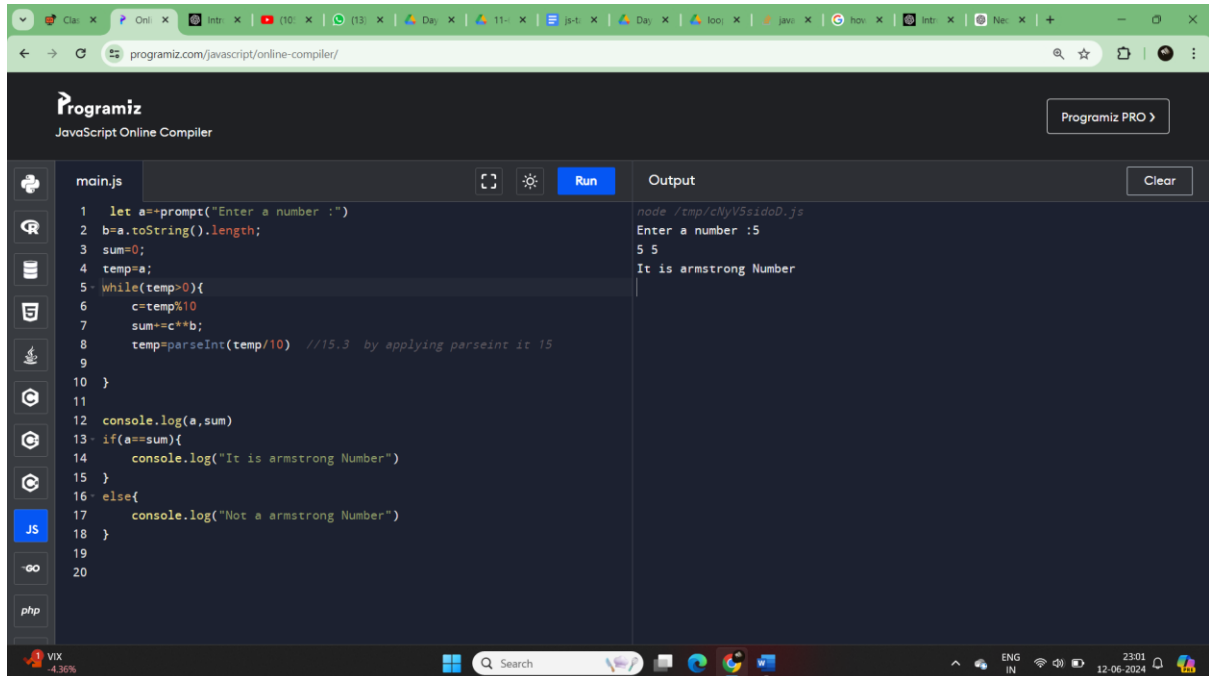


DATE : 11-6-2024

1. Find a number is armstrong or not from 1 to n range



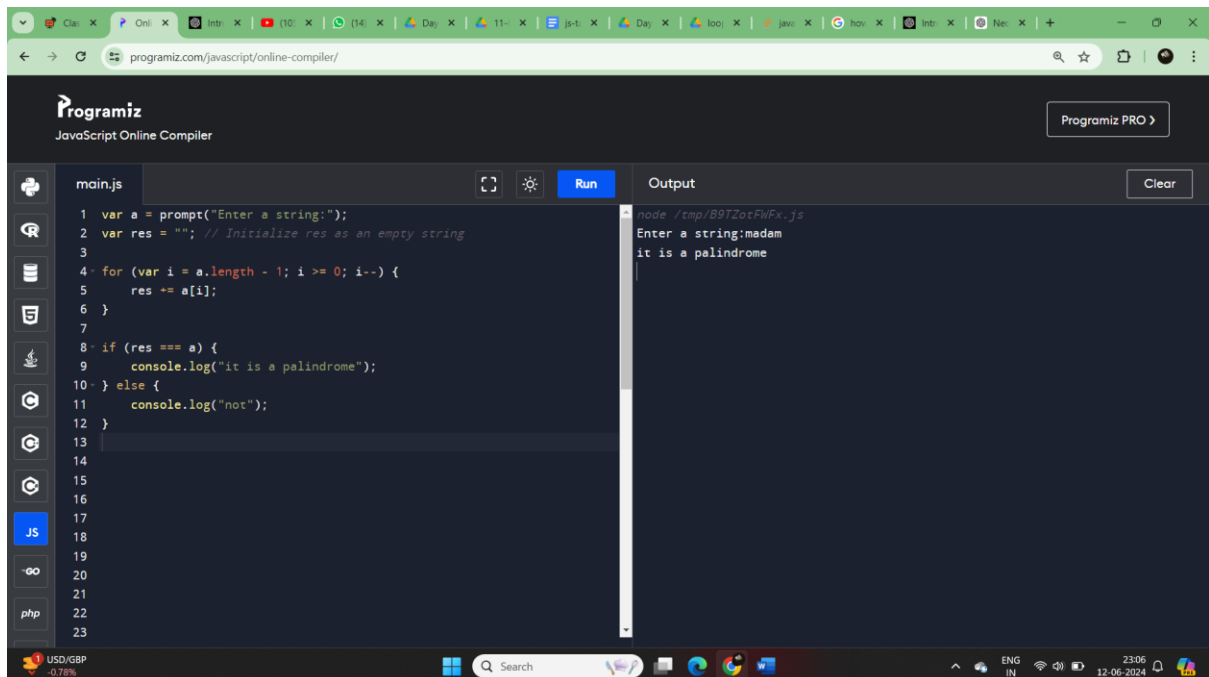
The screenshot shows the Programiz JavaScript Online Compiler interface. The editor contains a JavaScript file named 'main.js' with the following code:

```
1 let a=prompt("Enter a number :")
2 b=a.toString().length;
3 sum=0;
4 temp=a;
5 while(temp>0){
6   c=temp%10
7   sum+=c**b;
8   temp=parseInt(temp/10) //15.3 by applying parseInt it 15
9 }
10 console.log(a,sum)
11 if(a==sum){
12   console.log("It is armstrong Number")
13 }
14 else{
15   console.log("Not a armstrong Number")
16 }
```

The output panel shows the result of running the code:

```
node /tmp/cNyyV5sido0.js
Enter a number :5
5 5
It is armstrong Number
```

2. Find a number is a palindrome or not from 1 to n range



The screenshot shows the Programiz JavaScript Online Compiler interface. The editor contains a JavaScript file named 'main.js' with the following code:

```
1 var a = prompt("Enter a string:");
2 var res = ""; // Initialize res as an empty string
3
4 for (var i = a.length - 1; i >= 0; i--) {
5   res += a[i];
6 }
7
8 if (res === a) {
9   console.log("it is a palindrome");
10 } else {
11   console.log("not");
12 }
```

The output panel shows the result of running the code:

```
node /tmp/B9TzotFWfx.js
Enter a string:madam
it is a palindrome
```

The screenshot shows the Programiz JavaScript Online Compiler interface. The code editor on the left contains a JavaScript program to check if a string is a palindrome. The code is as follows:

```
1 let a=prompt("Enter a string :");
2 let b=a.split("").reverse().join("");
3 if(a==b){
4     console.log("palindrome")
5 }
6 else{
7     console.log("Not a palindrome")
8 }
```

The 'Run' button is highlighted in blue. The output panel on the right shows the result of running the code:

```
node /tmp/MnCPpK00ag.js
Enter a string :madam
palindrome
```

The browser's address bar shows the URL `programiz.com/javascript/online-compiler/`. The bottom status bar indicates the system is in India (IND) and the date is 12-06-2024.

3. Find the factorial of a given number

The screenshot shows the Programiz JavaScript Online Compiler interface. The code editor on the left contains a JavaScript program to calculate the factorial of a given number. The code is as follows:

```
1 let no=prompt("Enter a number :")
2 fact=1;
3 for( let i=no;i>=1;i--){
4     fact=fact*i
5 }
6 console.log(no,fact)
7 console.log("The factorial of "+no+" is :",fact)
```

The 'Run' button is highlighted in blue. The output panel on the right shows the result of running the code:

```
node /tmp/JKmtasVj0v.js
Enter a number :5
5 120
The factorial of 5 is : 120
```

The browser's address bar shows the URL `programiz.com/javascript/online-compiler/`. The bottom status bar indicates the system is in India (IND) and the date is 12-06-2024.

4. Find a number is neon number or not

The screenshot shows the Programiz JavaScript Online Compiler interface. The code in `main.js` is as follows:

```
1 let a = +prompt("Enter a number :");
2 let sum = 0;
3 let c = a * a;
4 while (c !== 0) {
5   r = c % 10;
6   sum = sum + r;
7   c = Math.floor(c / 10); // Use Math.floor to get the correct integer division
8 }
9 if (sum === a) {
10  console.log(a, " is a neon number");
11 } else {
12  console.log(a, "Not a neon number");
13 }
```

The output on the right shows the result of running the code with the input 9:

```
node /tmp/COfaGInide.js
Enter a number :9
9 is a neon number
```

5. Find number is step number or not

The screenshot shows the Programiz JavaScript Online Compiler interface. The code in `main.js` is as follows:

```
1 let num = +prompt("Enter a number:");
2 let numStr = num.toString();
3 isSteppingNumber=true
4 for(i=0;i<numStr.length-1;i++){
5   let diff=Math.abs(numStr[i]-numStr[i+1]);
6   if(diff!=1){
7     isSteppingNumber=false
8     break;
9   }
10 }
11 if (isSteppingNumber) {
12   console.log(num + " is a stepping number");
13 } else {
14   console.log(num + " is not a stepping number");
15 }
```

The output on the right shows the result of running the code with the input 32:

```
node /tmp/gAR6HIkVyJ.js
Enter a number:32
32 is a stepping number

=== Session Ended. Please Run the code again ===
```