

Meet - bry-oysh-jit x Errorhandling x +

File | /home/nandan/Desktop/LabInternal/Errorhandling.html

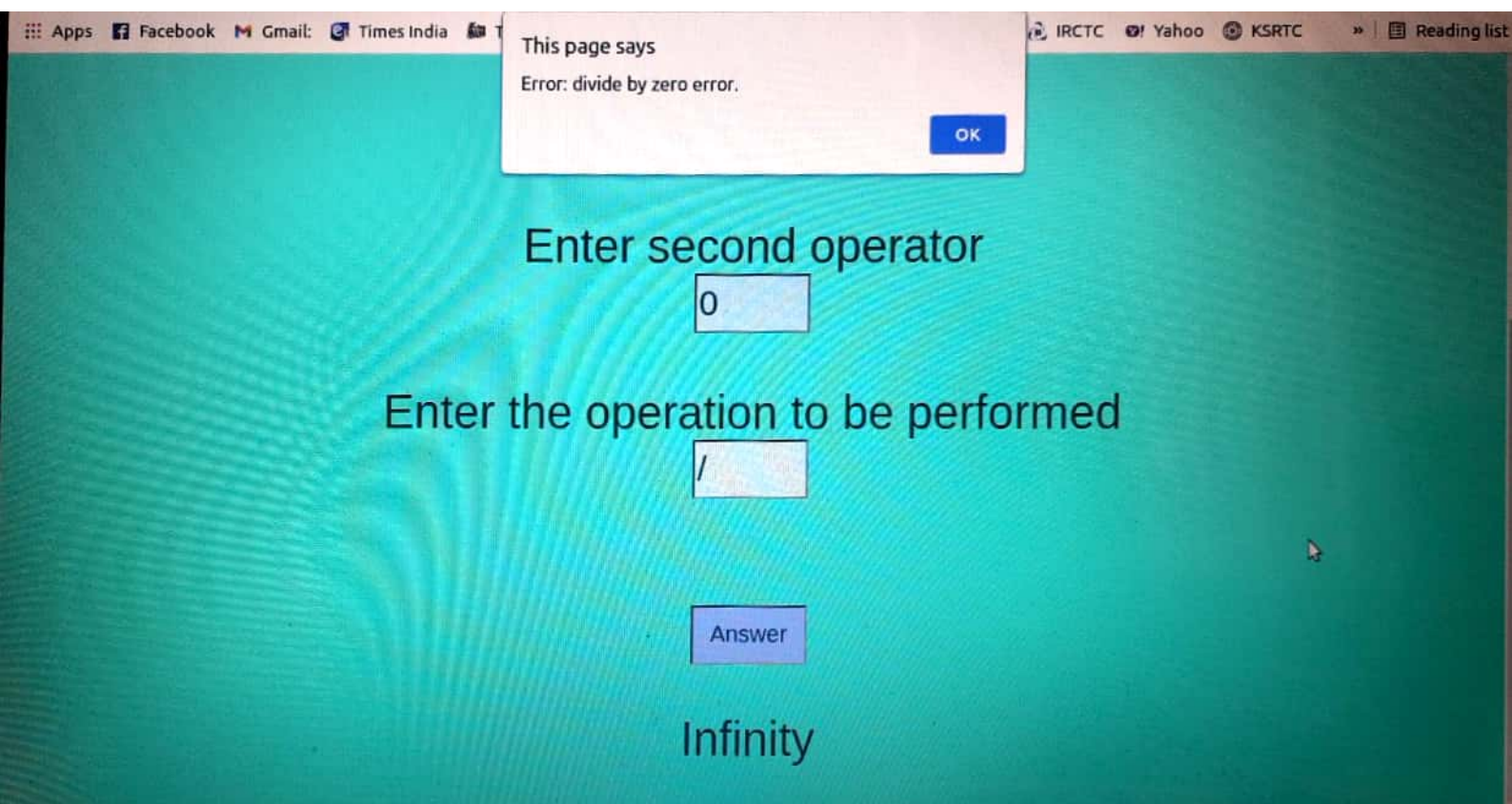
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# Error Handling and Mathematical Operations

Enter first operator

Enter second operator

Enter the operation to be performed



Tue 15:28  
validate.js - Visual Studio Code

File Edit Selection View Go Run Terminal Help

JS validate.js x Errorhandling.html

```
home > nandan > Desktop > LabInternal > JS validate.js > ...
1 function validateEmail(elementValue) {
2   var emailPattern = /^[a-zA-Z0-9._-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,4}$/;
3   return emailPattern.test(elementValue);
4 }
5 console.log(validateEmail('@nandangmail.com'))
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

2: bash

```
false
nandan@nandan-Aspire-E5-571P:~/Desktop/LabInternal$ node validate.js
false
nandan@nandan-Aspire-E5-571P:~/Desktop/LabInternal$ node validate.js
true
nandan@nandan-Aspire-E5-571P:~/Desktop/LabInternal$ node validate.js
true
nandan@nandan-Aspire-E5-571P:~/Desktop/LabInternal$ node validate.js
true
nandan@nandan-Aspire-E5-571P:~/Desktop/LabInternal$ node validate.js
false
nandan@nandan-Aspire-E5-571P:~/Desktop/LabInternal$
```

Ln 5, Col 47 Spaces: 4 UTF-8 LF



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'A' SEC

Approach

Part A - 9      Part B - 9.

~~Approach~~Part A ① Write javascript code to validate email id using regular expression

For this first we will declare <sup>or create</sup> a function called validate then we will ~~write a~~ declare the pattern for the regular expression using let, const or var. Then we will check whether the particular expression is having [a-z] or [A-Z] or [0-9] or [!\$%&'\*+,-./:;=?@^\_`{|}~] and @ should always be present. After declaring the pattern function we will return it using test method. <sup>Special characters should not be there in email.</sup> After this out of the function we will call the function and pass the email as parameter.

Regular expression :- [a-zA-Z0-9.-]+@[0-9A-Z0-9.-]+\.[a-zA-Z];

Then using test method we can check for a particular pattern and check if it matching with the regular expression

eg:- let string = "Hi";  
let pattern = new exp("i")  
let result = pattern.test(string)  
output:- will be boolean [T or F]



## Part-B (9)

Create the webinterface to perform mathematical operations and also perform error handling for the required operations. Dynamically log the user requests.

### Approach

First ~~we will~~ for the interface we will use a label tag in html and input type text to enter the ~~operator~~ <sup>value</sup>. Then we do the same steps for the second ~~operator~~ <sup>value</sup>. And to solve the particular mathematical operations we will use a button and onclick of the button it will submit and operation will be performed. Then for the function we will declare 2 variables a and b using let, const or var and we will use document.getElementById() to fetch the id of the first, second ~~and~~ <sup>values</sup> operators. Then we will compute ~~the~~ / solve the addition or sub or mul by declaring one more variable and assigning the particular operation. For the error handling we use to try catch block so we can check for divide by error or if number is occurring in this particular range etc. If the output is false then it is considered as an error and it will give warning. For this we can use "alert" method. If it is true the output will display without any error. Using the eval function we can perform the operations.