Calculator

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About project Calculator

A calculator program provides the functionality of a calculator on a computer. It allows users to perform arithmetic operations through a CLI similar to a physical calculator.

Features

1. Supports addition, subtraction, multiplication, and division operations.
2. Handles both integer and floating-point numbers.
3. Accepts multiple inputs in a single command.
4. Provides a clear and concise output of the calculated result.
5. Supports parentheses for grouping expressions and controlling the order of operations.

Tech stack used in Calculator

1. Programming Languages – JavaScript
2. Runtime Environment – Node.js

Proposed Solution

Procedure

Installing axios, readline-sync , cli-color packages

Importing packages

```
import readline from "readline-sync";
import color from "cli-color";
```

Using Cli-color package, naming the cli package codes to the new color variables

```
const purple = color.xterm(92).bgXterm(147)
const blue = color.xterm(153)
const pink = color.xterm(212)
const peach =  color.xterm(224)
const lime = color.xterm(229)
```

```
let a,b;

 function inputa(){
     a = readline.question(peach("Enter 1st num: "))
    if(Number(a)){
        inputb()
    }
    else{
        console.log(peach("not a number"))
     inputa()
    }
}

function inputb(){
    b = readline.question(peach("Enter 2nd num: "))
   if(Number(b)){
    console.log(lime("--------------------------"))
       operator()
   }
   else{
       console.log(peach("not a number"))
    inputb()
   }
}
```

Taking two variables a and b

Asking user two input numbers and assigning it to variables a & b. if the user input is not a returns not a number

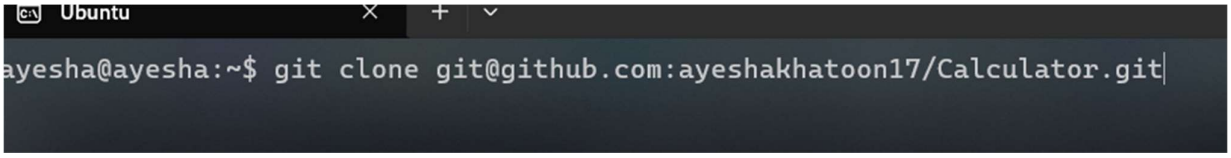
Asking user which operation they want to perform and performing the operations chosen by the user

```
function operator(){
let result;
const operator = readline.question(pink("which operation do you want to perfrom ( +, -, * , / ) : "))
console.log(lime("--------------------------"))

switch(operator){
    case '+':
        result = +a + +b;
        console.log(blue(`${a} + ${b} = ${result}`));
        break;
    case '-':
        result = a - b;
        console.log(blue(`${a} + ${b} = ${result}`));
         break;
    case '*':
        result = a * b;
        console.log(blue(`${a} + ${b} = ${result}`));
      break;
    case '/':
     result = a / b;
     console.log(blue(`${a} + ${b} = ${result}`));
    break;

    default:
        console.log('Invalid operator');
        operator()
        break;

}
```

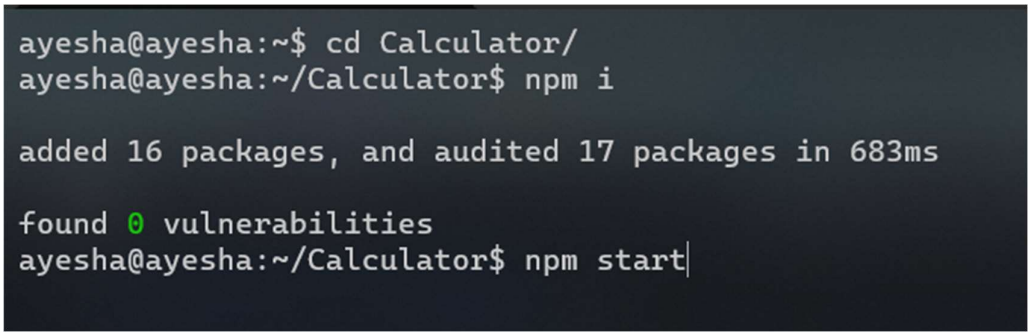
Installation of Calculator

GitHub Repository: https://github.com/ayeshakhatoon17/Calculator

1.Clone the repository



2. Installing dependencies & running project



3. Output: