

NAME : AMAN SINGH

BATCH : T23

ROLL NO - 128

ASSIGNMENT - 8

Code :-

```
const rl = readline.createInterface({
  input: process.stdin,
  output: process.stdout,
  terminal: false
});

rl.question('Enter the first number: ', (num1) => {
  rl.question('Enter the second number: ', (num2) => {
    rl.question('Select an operation (add, subtract, multiply, divide): ',
      (operation) => {
        const number1 = parseFloat(num1);
        const number2 = parseFloat(num2);

        if (!isNaN(number1) && !isNaN(number2)) {
          let result;

          switch (operation.toLowerCase()) {
            case 'add':
              result = number1 + number2;
              break;
            case 'subtract':
              result = number1 - number2;
              break;
```

NAME : AMAN SINGH

BATCH : T23

ROLL NO - 128

```
        case 'multiply':
            result = number1 * number2;

            break;
        case 'divide':
            if (number2 === 0) {
                console.log('Error: Division by zero');
                rl.close();
                return;
            }
            result = number1 / number2;
            break;
        default:
            console.log('Invalid operation. Please select add, subtract, multiply, or
divide.');
```

```
            rl.close();
            return;
        }

        console.log(`Result: ${result}`);
    } else {
        console.log('Invalid input. Please enter valid numbers.');
```

```
    }

    rl.close();

});

});
```

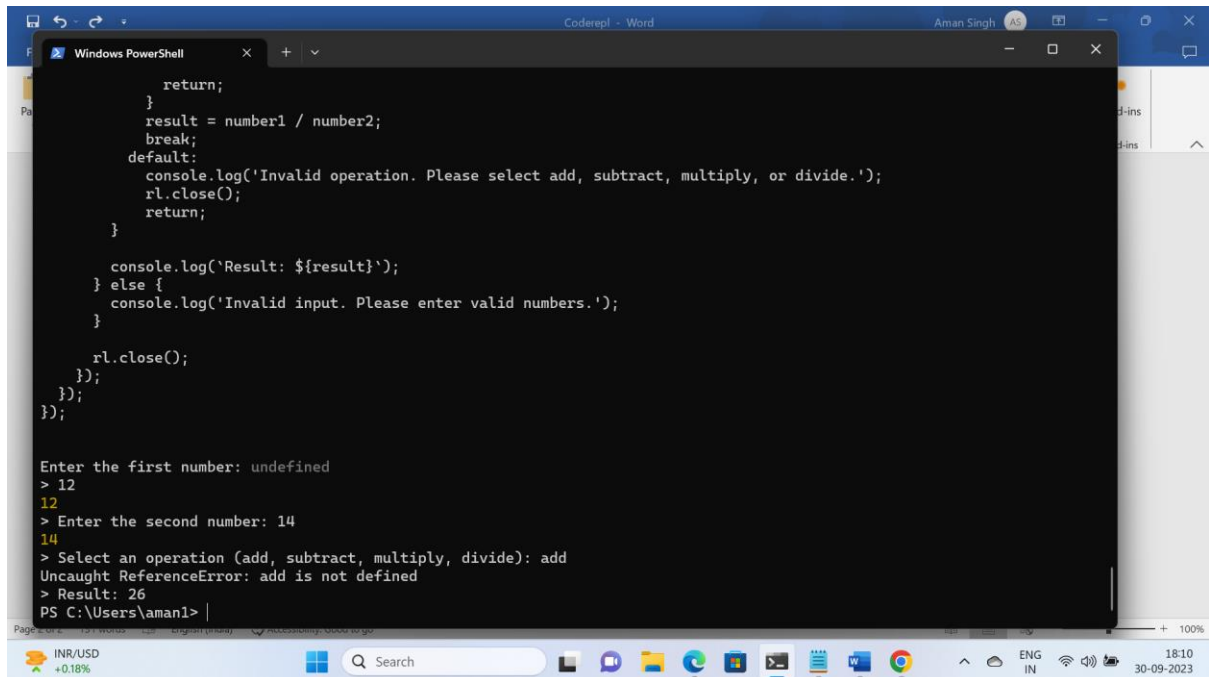
NAME : AMAN SINGH

BATCH : T23

ROLL NO - 128

```
});
```

OUTPUT :



```
return;
}
result = number1 / number2;
break;
default:
  console.log('Invalid operation. Please select add, subtract, multiply, or divide.');
```

```
    console.log('Invalid input. Please enter valid numbers.');
```

```
    rl.close();
  }
  console.log('Result: ${result}');
```

```
  } else {
    console.log('Invalid input. Please enter valid numbers.');
```

```
  }
  rl.close();
});
});
});
```

```
Enter the first number: undefined
> 12
12
> Enter the second number: 14
14
> Select an operation (add, subtract, multiply, divide): add
Uncaught ReferenceError: add is not defined
> Result: 26
PS C:\Users\aman1>
```

CONCLUSION :

Node JS calculator program demonstrates the principles of REPL environment, allowing users to interactively input mathematical operations and receive immediate result.