DSA In JavaScript WITH SHERYIANS CODING SCHOOL

LOOPS AND NUMBER OPERATIONS

Swipe for more



1. Sum of Digits

Input: 123

Output: 6

```
let n = Number(prompt("Enter a number"));
let originalNum = n;
let sum = 0;
while(n > 0){
    let rem = n % 10;
    sum += rem;
    n = Math.floor(n / 10);
}
console.log(`Sum of ${originalNum} is ${sum}`);
```



2. Reverse a Number

Input: 123

Output: 321

```
let n = Number(prompt("Enter a number"));
let originalNum = n;
let sum = 0;
while(n > 0){
    let rem = n % 10;
    sum += rem;
    n = Math.floor(n / 10);
}
console.log(`Sum of ${originalNum} is ${sum}`);
```



3. Automorphic Number

A number whose square ends in the same digits as the number itself.

Input : 5, => 5^2 = 25 (ends with 5)

Output: 5 is an automorphic number

```
let sq = n * n;
let count = 0;
while (n > 0) {
    count++;
    n = Math.floor(n / 10);
}
let lastDigits = sq % Math.pow(10, count);
if (lastDigits === originalNum) {
    console.log(`${originalNum} is an automorphic number because last ${count} digits of ${sq} is ${lastDigits}`);
} else {
    console.log(`${originalNum} is not an automorphic number because last ${count} digits of ${sq} is not ${originalNum}`);
}
```

