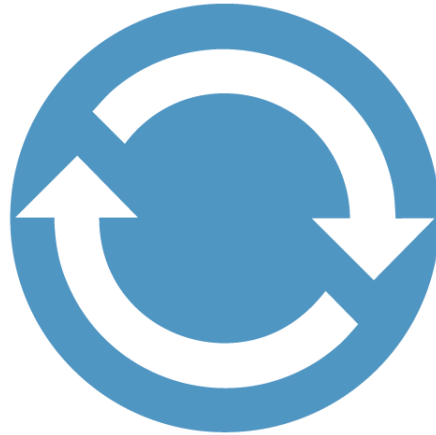


## JavaScript Assignment 12: Loops



**Objective:** The objective of this assignment is to create a JavaScript program that performs various operations on a given number, including finding the sum of its digits, checking if it is an Armstrong number, checking if it is a prime number, and printing all its factors.

### Tasks:

- Write a JavaScript program that performs the following operations on a given number:
- Find the sum of first n numbers where n is a variable.
- Print table of n where n is a variable.
- Check if it is a prime number.
- Print all its factors.
- Find sum of all digits of a number ( $139 = 13 \Rightarrow 1+3+9 = 13$ ).
- Check if it is an Armstrong number.
  - An Armstrong number is one whose sum of digits raised to the power three equals the number ( ex  $153 \Rightarrow 1^3 + 5^3 + 3^3 = 153$  )
- Use different variables for checking all the things
- Display the results of each operation to the user using console.log.

### Instructions:

1. Utilise proper control structures (loops, conditionals) to perform the operations.
2. At Least 5 variables to check.

### Sample Output:

Ex - Number :- 153  
Sum of its digits: 9  
Is it an Armstrong number? Yes  
Is it a prime number? No  
Factors: 1, 3, 17, 51, 153

## Upskill Mafia

### Submission Guidelines :-

- Deploy your code to netlify make sure to name your html file as index.html.
- If you don't know how to deploy on netlify, watch this video : [https://youtu.be/li2Y4i4\\_i-o](https://youtu.be/li2Y4i4_i-o)
- Submit the Deployed Link below in the same task number

Submit the deployed link here: <https://upskillmafia.com/mern/dashboard/tasks>

**Note** : You can take help from **Internet** or You can also connect with upskill Mafia **Mentors**