



**Subject : 2304CS431 – Client Side Scripting using  
Javascript**

**Faculty: Prof. Chirag K. Sakhrani**

**Practical – 7: Implementation of if condition inside loops**

1)	
	<b>Program:- WAP to find the factorial of given number. (A)</b>
	<b>Output:-</b>  <pre>const num = parseInt(prompt("Enter a number:"));  if (num &lt; 0) {   console.log("Factorial of a negative number is not possible."); } else {   let result = 1;   for (let i = 1; i &lt;= num; i++) {     result *= i;   }   console.log("Factorial of the given number is:", result); }</pre>
2)	
	<b>Program:- WAP to print the Fibonacci series of a number. (A)</b>
	<b>Output:-</b>  <pre>const num = parseInt(prompt("Enter the number of terms in the Fibonacci series:"));  let a = 0; let b = 1; let fb = "";  for (let i = 0; i &lt; num; i++) {   fb += a + (i &lt; num - 1 ? ", " : ""); // Ternary operator to add comma if it's not the last element   let c = a + b;   a = b;   b = c; }  console.log("Fibonacci Series of the given number of terms is:", fb);</pre>
3)	
	<b>Program:- WAP to check whether the given no. is prime or not. (B)</b>
	<b>Output:-</b>

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**Approach 1:-**

```
let number = parseInt(prompt("Enter a number:"));

if (number <= 1) {
    console.log("The given number is not a prime number");
} else {
    let isPrime = true;
    for (let i = 2; i < number / 2; i++) {
        if (number % i === 0) {
            isPrime = false;
            break;
        }
    }
    if (isPrime) {
        console.log("The given number is a prime number");
    } else {
        console.log("The given number is not a prime number");
    }
}
```

**Approach2:-**

```
let number = parseInt(prompt("Enter a number:"));

if (number <= 1) {
    console.log("The given number is not a prime number");
} else {
    let isPrime = true;
    for (let i = 2; i <= Math.sqrt(number); i++) {
        if (number % i === 0) {
            isPrime = false;
            break;
        }
    }
    if (isPrime) {
        console.log("The given number is a prime number");
    } else {
        console.log("The given number is not a prime number");
    }
}
```

4)

**Program:- WAP to check whether the given number is palindrome or not. (C)**

**Ouput:-**



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```
let num = parseInt(prompt("Enter a number:"));
let temp = num;
let rev = 0;

while (num > 0) {
    let rem = temp % 10;
    rev = sum * 10 + rem;
    temp = Math.floor(temp / 10);
}

if (num === rev) {
    console.log("The given number is a palindrome number");
} else {
    console.log("The given number is not a palindrome number");
}
```

5)

**Program:- WAP to print prime numbers between the two given numbers. (C)**

**Output:-**

```
let start = parseInt(prompt("Enter the starting number:"));
let end = parseInt(prompt("Enter the ending number:"));

console.log(`Prime numbers between ${start} and ${end} are:`);

for (let num = start; num <= end; num++) {
    if (num <= 1) {
        continue; // Skip numbers less than or equal to 1
    }

    let isPrime = true;
    for (let i = 2; i <= Math.sqrt(num); i++) {
        if (num % i === 0) {
            isPrime = false;
            break;
        }
    }

    if (isPrime) {
        console.log(num);
    }
}
```