- **Lab2**
- **Question: -**
  - **1. WAP to check whether the given no. is prime or not.**

```
<script type="text/javascript">
    let count= false;
    let a = parseInt(prompt("Enter value 1:"));
    // input value = 3
    //output = 'This is Prime Number'
    // input value = 4
    // output = 'This is Not Prime Number'
    for ( i = 2 ; i < a; i++)
    {
        if (a%i==0)
        {
            count = true;
            break;
        }
    }
    if (count)
    {
        document.write('This is Not Prime Number')

    }
    else
    {
        document.write('This is Prime Number')
    }

</script>
```

- **2. WAP to find the factorial of given number.**

```
<script type="text/javascript">
    let a = parseInt(prompt("Enter value:"));
    let ans=1;
    for (i = 1; i <= a; i++)
    {
         ans *=i;

    }
    document.write(ans);
</script>
```

- **3. WAP to print the Fibonacci series of a number.**

```
<script type="text/javascript">

    let f = 0
    let s = 1
    let n = parseInt(prompt("Enter value:"));
    let a = 0
    for (let i = 1; i <= n ; i++)
    {
        document.write(f,"<br>");
        a = f+s;
        f = s;
        s = a;
    }
</script>
```

- **4. WAP to check whether the given number is palindrome or not.**

```
<script type="text/javascript">
    let rev
    let n = parseInt(prompt("Enter value:"));
    let ans=n
    let sum=0
    while(n>0)
    {
        rev = n%10;
        sum = sum * 10 + rev;
        n = parseInt(n/10)
    }

    if (ans == sum)
    {
        document.write("This number is palindrom");
    }
    else
    {
        document.write("This number is not palindrom")
    }
</script>
```

- **5. WAP to print prime numbers between the two given numbers.**

```
<script type="text/javascript">

    let a = parseInt(prompt("Enter value 1:"));
    let b = parseInt(prompt("Enter value 2:"));
    for(i=a;i<=b;i++)
    {
        let flag=false
        for (j=2 ; j<i;j++)
        {
            if(i%j==0)
            {
                    flag=true;
                    break;
            }
        }
        if (!flag)
        {
            document.write(i,"<br>");
        }
    }

</script>
```

- **6. WAP to print sum of first 'n' Natural number (sum =1 + 2 + 3+ ... +n).**

```
<script type="text/javascript">
    let a = parseInt(prompt("Enter value:"));
    let sum=0
    for(i=1;i<=a;i++)
    {
        sum=sum+i;
    }
    document.write(sum)
</script>
```

- **7. WAP to check whether the given number is Armstrong or not.**

```
<script type="text/javascript">
    let a =prompt("Enter value:");
    let ans=0;
    let rem =0;
    let n=a;

while(n>0)
{
    rem=n%10;
    ans=ans+(rem*rem*rem);
    n=parseInt(n/10);
}

    if (ans==a)
    {
        document.write(a,' Is armstrong Number');
    }
    else
    {
        document.write(a,' Is Not armstrong Number');
    }
</script>
```

- **8. WAP to print the factors of given number.**

```
<script type="text/javascript">

    a=parseInt(prompt("Enter Number:"));

    for(i=0;i<=a;i++)
    {
        if (a%i==0)
        {
            document.write(i,"<br>");
        }
    }
</script>
```

- **9. WAP to print the GCD of two number.**

```
<script type="text/javascript">

    a=24;
    b=36;
    function gct(a,b)
    {
        while(b!=0)
        {
            let temp = b;
            b=a%b;
            a=temp;
        }
        return a;
    }
    ans=gct(a,b);
    document.write(ans,);
</script>
```

- **10. WAP to print LCM of two numbers.**

```
<script type="text/javascript">

    a=24;
    b=36;
    function gct(a,b)
    {
        while(b!=0)
        {
            let temp = b;
            b=a%b;
            a=temp;
        }
        return a;
    }

    ans=gct(a,b);
    // document.write(ans,"<br>");
    ans1=a*b/ans
    document.write(ans1);

</script>
```