

**1. WAP to check whether the number given by the user is Positive, negative, or Zero using JS.**

```
<html>

<head>
    <title>positive or negative</title>
</head>
<body>
<script type="text/javascript">
    var a= prompt("Enter the number to find positive negative or zero");
    if(a>0)
    {
        document.write("The given value is positive");
    }
    else if(a<0)
    {
        document.write("the given value is negative");
    }
    else if(a==0)
    {
        document.write("the given value is zero");
    }
    else
    {
        document.write("The given value is unknown");
    }
</script>
</body>
</html>
```

**2. WAP to check whether the number given by the user is Odd or even.**

```
<html>
<head>

    <title>Odd or even</title>
</head>
<body>
<script type="text/javascript">
    var a= parseInt(prompt("enter the number to check"));
    if (a>0)
    {
```

```

        if(a%2==0)
        {
            document.write("the given value is even");
        }
        else
        {
            document.write("the given value is odd");
        }
    }else
    {
        document.write("the value is not acceptable");
    }
</script>
</body>
</html>

```

**3. WAP to find the smallest number among the three numbers given by the user.**

```

<html>
<head>
<title>if..else..if Conditional Control structures</title>
</head>
<body>
<script type="text/javascript">
var a= parseInt(prompt("Enter the number"));
var b= parseInt(prompt("Enter the number"));
var c= parseInt(prompt("Enter the number"));
if(a<b && a<c)
{
    document.write(a," is the smallest" + "<br>");

}
else if(b<a && b<c)
{
    document.write(b," is the Smallest" + "<br>");
}
else if(c<a && c<b)
{
    document.write(c," is the Smallest" + "<br>")
}
else
{
    document.write("all are equal" + "<br>");
}
</script>
</body>

```

```
</html>
```

**4. WAP to make Calculator Program using switch case.**

```
<html>
```

```
<head>
```

```
    <title>Switch Calculator</title>
```

```
</head>
```

```
<body>
```

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

```
    var a = parseInt(prompt("Enter the first number"));
```

```
    var b = parseInt(prompt("Enter the second number"));
```

```
    var ch = prompt("Enter the operator to be used(+ , - , / , *)");
```

```
    var result;
```

```
    switch (ch)
```

```
    {
```

```
    case '+':
```

```
        result =a+b;
```

```
        document.write("The sum of two numbers are ", result);
```

```
        break;
```

```
    case '-':
```

```
        result =a-b;
```

```
        document.write("The difference of two numbers are ", result);
```

```
        break;
```

```
    case '/':
```

```
        result =a/b;
```

```
        document.write("The division of two numebrs are ", result);
```

```
        break;
```

```
    case '%':
```

```
        result =a % b;
```

```
        document.write("The reminder of obtained from the numbers ",result);
```

```
        break;
```

```
    case '*':
```

```
        result =a*b;
```

```
        document.write("The multiplication of these two numbers ",result);
```

```
        break;
```

```
    default:
```

```
        document.write("Invalid Input");
```

```
        break
```

```
    }
```

```
</script>
```

```
</body>
```

```
</html>
```

**5. WAP to display the multiplication table for a number given by the user.**

```
<html>
<head>
    <title>Multiplication Table</title>
</head>
<body>
    <script type="text/javascript">
        var a=parseInt(prompt("Enter the number "));
        for(var i=1;i<=10;i++)
        {
            var mul= a*i;
            document.write(a+" X "+i+" = ",mul+"<br>");
        }
    </script>

</body>
</html>
```

**6. WAP to display the factorial of the number given by the user.**

```
<html>
<head>

    <title>factorial</title>
</head>
<body>
    <script type="text/javascript">
        //for loop to find factorial of a number
        var f=1;
        var i,n;
        n=prompt("enter the number to calculate");
        for(i=1;i<=n;i++)
        {
            f=f*i;
        }
        document.write("The factorial is= " + f);
        document.write("<br>")
    </script>
</body>
</html>
```

**7. WAP to display the factors for the number given by the user.**

```
<html>
```

```

<head>

    <title>factorial</title>
</head>
<body>
<script type="text/javascript">
//for loop to find factorial of a number

var i,n;
n=prompt("enter the number to calculate");
document.write("The factors of the number is: ");
for(i=1;i<=n;i++)
{
    if(n%i==0)
    {
        document.write(i+" ");
    }
}

</script>
</body>
</html>

```

**8. WAP to display the Fibonacci Series for the nth term given by the user.**

```

<!DOCTYPE html>
<html>
<head>

    <title>Fibo Series</title>
</head>
<body>
<script>
    var a=0,b=1,c,i;
    var n= prompt("Enter the number");
    document.write("The Fibo Series are"+"<br>");
    for(i=1;i<=n;i++)
    {
        document.write(a+" ");
        c=a+b;
        a=b;
        b=c;
    }
</script>
</body>
</html>

```

**9. WAP to check whether the number given by the user is palindrome or not.**

```
<html>
<head>

    <title>Palindrom or not</title>
</head>
<body>
<script type="text/javascript">
    var result=0,n,rem,temp;
    n=prompt("Enter the number");
    temp=n;
    while(n!=0)
    {
        rem=n%10;
        result=result*10+rem;
        n=parseInt(n/10); // OR Math.floor(n/10);

    }
    if(result==temp)
    {
        document.write("The given number is Palindrom");
    }
    else
    {
        document.write("The given number is not Palindrom");
    }
</script>
</body>
</html>
```

**10. WAP to check whether the number given by the user is Armstrong or not.**

```
<html>
<head>

    <title>Armstrong or not</title>
</head>
<body>
<script type="text/javascript">
    var result=0,n,rem,temp,count=0;
    n=prompt("Enter the number");
    temp=n;
    while(n!=0)
    {
        n=Math.floor(n/10);
```

```

        count++;
    }
    n=temp;
    while(n!=0)
    {
        rem=n%10;
        result=result+Math.pow(rem,count);
        n=parseInt(n/10); // OR Math.floor(n/10);

    }
    if(result==temp)
    {
        document.write("The given number is Armstrong");
    }
    else
    {
        document.write("The given number is not Armstrong");
    }
</script>

</body>
</html>

```

**11. WAP to check whether the number given by the user is prime, or composite.**

```

<html>

<head>

    <title>Prime or Composite</title>
</head>
<body>
<script type="text/javascript">
    var a=prompt("Enter the number to find prime or composite");
    var i,c=0;
    for(i=0;i<=a;i++)
    {
        if(a%i==0)
        {
            c++;
        }
    }
    if(c==1 || c==0)
    {
        document.write("The given value is neither prime nor composite");
    }

```

```
    }  
    else if(c==2)  
    {  
        document.write("the given value is prime");  
    }  
    else  
    {  
        document.write("the given value is composite");  
    }  
</script>  
</body>  
</html>
```