

## EXERCISE 6 – JAVASCRIPT

### 1.html - ADD, SUBTRACT, MULTIPLY, DIVIDE

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8" />
    <title>Exercise 6</title>
    <style type="text/css">
      body {
        margin: 30px;
      }
    </style>
  </head>
  <body>
    <a href="10.html" type="button" style="background-color: gray; color: white;
padding:5px; text-decoration: none;">MENU</a>
    <h1>ADD, SUBTRACT, MULTIPLY, DIVIDE</h1>
    <form>
      Enter the Number 1: <input type="number" id="first" /><br />
      Enter the Number 2: <input type="number" id="second" /><br />
      <input type="button" onClick="addBy()" value="Add" />
      <input type="button" onClick="subtractBy()" value="Subtract" />
      <input type="button" onClick="multiplyBy()" value="Multiply" />
      <input type="button" onClick="divideBy()" value="Divide" />
    <p>
      Answer: <br />
      <span id="num1"></span>
      <span id="sign"></span>
      <span id="num2"></span>
      <span id="result"></span> <br />
    </p>
    <script>

      function addBy() {
        num1 = parseInt(document.getElementById("first").value);
        num2 = parseInt(document.getElementById("second").value);
        document.getElementById("num1").innerHTML =
document.getElementById("first").value
        document.getElementById("num2").innerHTML =
document.getElementById("second").value + " = "
        document.getElementById("sign").innerHTML = '+'
        document.getElementById("result").innerHTML = num1 + num2;
      }
    </script>
  </body>
</html>
```

```

        function subtractBy() {
            num1 = parseInt(document.getElementById("first").value);
            num2 = parseInt(document.getElementById("second").value);
            document.getElementById("num1").innerHTML =
document.getElementById("first").value
            document.getElementById("num2").innerHTML =
document.getElementById("second").value + " = "
            document.getElementById("sign").innerHTML = '-'
            document.getElementById("result").innerHTML = num1 - num2;
        }
        function multiplyBy() {
            num1 = parseInt(document.getElementById("first").value);
            num2 = parseInt(document.getElementById("second").value);
            document.getElementById("num1").innerHTML =
document.getElementById("first").value
            document.getElementById("num2").innerHTML =
document.getElementById("second").value + " = "
            document.getElementById("sign").innerHTML = '*'
            document.getElementById("result").innerHTML = num1 * num2;
        }
        function divideBy() {
            num1 = parseInt(document.getElementById("first").value);
            num2 = parseInt(document.getElementById("second").value);
            document.getElementById("num1").innerHTML =
document.getElementById("first").value
            document.getElementById("num2").innerHTML =
document.getElementById("second").value + " = "
            document.getElementById("sign").innerHTML = '/'
            document.getElementById("result").innerHTML = num1 / num2;
        }
    </script>
</form>
</body>
</html>

```

## 2.html - FACTORIAL

```

<!DOCTYPE html>
<html>
    <head>
        <meta charset="utf-8" />
        <title>Exercise 6</title>
        <style type="text/css">
            body {
                margin: 30px;
            }
        </style>

```

```

</head>
<body>
  <a href="10.html" type="button" style="background-color: gray; color: white;
padding:5px; text-decoration: none;">MENU</a>
  <h1>FACTORIAL</h1>
  <form>
    Enter Num: <input type="number" id="num" />
    <input type="button" onClick="factorial()" value="Factorial" />
  </form>
  <p>The Result is : <br>
    <span id = "result2"></span>
</body>
<script>
  function factorial() {
    var i, no, fact;
    fact = 1;
    no = parseInt(document.getElementById("num").value);
    for (i = 1; i <= no; i++) {
      fact = fact * i;
    }
    document.getElementById("result2").innerHTML = fact;
  }
</script>
</html>

```

### 3.html - FIBONACCI

```

<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8" />
    <title>Exercise 6</title>
    <style type="text/css">
      body {
        margin: 30px;
      }
    </style>
  </head>
  <body>
    <a href="10.html" type="button" style="background-color: gray; color: white;
padding:5px; text-decoration: none;">MENU</a>
    <h1>FIBONACCI</h1>
    <form>
      Enter Num: <input type="number" id="num" />
      <input type="button" onClick="fibonacci()" value="Compute" />
    </form>
    <p>

```

```

    The Result is : <br />
    <span id="result"></span>
  </p>
</body>

<script>
  function fibonacci() {
    var n1 = 0;
    var n2 = 1;
    var sum;
    var n = parseInt(document.getElementById("num").value);
    document.getElementById("result").innerHTML = fibonacci_series(n);
  }

  var fibonacci_series = function (n) {
    if (n === 1) {
      return [0, 1];
    } else {
      var s = fibonacci_series(n - 1);
      s.push(s[s.length - 1] + s[s.length - 2]);
      return s;
    }
  };
</script>
</html>

```

#### 4.html - PALINDROME

```

<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8" />
    <title>Exercise 6</title>
    <style type="text/css">
      body {
        margin: 30px;
      }
    </style>
  </head>
  <body>
    <a href="10.html" type="button" style="background-color: gray; color: white;
padding:5px; text-decoration: none;">MENU</a>
    <h1>PALINDROME</h1>
    <form>
      Enter string: <input type="text" id="str" />
      <input type="button" onClick="Palindrome()" value="Check" />
    </p>

```



```

    }
    </style>
</head>
<body>
    <a href="10.html" type="button" style="background-color: gray; color: white;
padding:5px; text-decoration: none;">MENU</a>
    <h1>PRIME</h1>
    <form>
        Enter Number: <input type="number" id="num" />
        <input type="button" onClick="isPrime()" value="Check" />
    </p>

    <p>
        The number is
        <span id="result"></span>
    </p>
</form>
</body>
<script>
    function isPrime(){
        var i, n, flag=0;
        n = parseInt(document.getElementById("num").value);
        for(i=2;i<n;i++){
            if(n%i==0){
                flag=1;
                document.getElementById("result").innerHTML = " Not a prime";
                break;
            }
        }
        if(flag==0){
            document.getElementById("result").innerHTML = "a Prime";
        }
    }
</script>
</html>

```

## 6.html - GRADES!!!

```

<!DOCTYPE html>
<html>
    <head>
        <meta charset="utf-8" />
        <title>Exercise 6</title>
        <style type="text/css">
            body {
                margin: 30px;
            }

```

```
</style>
</head>
<body>
  <a href="10.html" type="button" style="background-color: gray; color: white;
padding:5px; text-decoration: none;">MENU</a>
  <h1>GRADES!!!</h1>
  <form>
    Enter Marks: <input type="number" id="num" />
    <input type="button" onClick="checkGrade()" value="Check" />
  </p>

  <p>
    The grade is
    <span id="result"></span>
  </p>
</form>
</body>
<script>
  function checkGrade()
  {
    var n;
    n = parseInt(document.getElementById("num").value);
    if(n>=90)
    {
      document.getElementById("result").innerHTML="Wow!! S Grade";
    }else if(n>=80)
    {
      document.getElementById("result").innerHTML="Nice!! A Grade";
    }else if(n>=70)
    {
      document.getElementById("result").innerHTML="B Grade";
    }else if(n>=60)
    {
      document.getElementById("result").innerHTML="C Grade";
    }else if(n>=50)
    {
      document.getElementById("result").innerHTML="D Grade";
    }else if(n>=40)
    {
      document.getElementById("result").innerHTML="E Grade";
    }else
    {
      document.getElementById("result").innerHTML="F Grade";
    }
  }
</script>
</html>
```

## 7.html - GREETING!!!

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8" />
    <title>Exercise 6</title>
    <style type="text/css">
      body {
        margin: 30px;
      }
    </style>
  </head>
  <body onload="greeting()">
    <a href="10.html" type="button" style="background-color: gray; color: white;
padding:5px; text-decoration: none;">MENU</a>
    <h1>GREETING!!!</h1>

    Hi,
    <span id="result"></span>
  </p>
</form>
</body>
<script>
  function greeting()
  {
    var d = new Date();
    document.getElementById("result").innerHTML= d.getHours();
    var n = d.getHours();

    if(n>=5 && n<12)
    {
      document.getElementById("result").innerHTML="Good Morning";
    }else if(n>=12 && n<16)
    {
      document.getElementById("result").innerHTML="Good Afternoon";
    }else if(n>=16 && n<20)
    {
      document.getElementById("result").innerHTML="Good Evening";
    }else
    {
      document.getElementById("result").innerHTML="Good Night";
    }
  }
</script>
</html>
```



## 8.html - TEXT AREA

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8" />
    <title>Exercise 6</title>
    <style type="text/css">
      body {
        margin: 30px;
      }
    </style>
  </head>
  <body>
    <a href="10.html" type="button" style="background-color: gray; color: white;
padding:5px; text-decoration: none;">MENU</a>
    <h1>TEXT AREA</h1>
    <textarea id="txt" rows="4" cols="30" ></textarea>
    <button onclick="modify()">MODIFY</button>
  </body>
  <script>
    i=0;
    function modify(){
      console.log("hi");
      if(i==0){
        document.getElementById("txt").style.backgroundColor="black";
        document.getElementById("txt").style.color="white";
        document.getElementById("txt").style.textDecorationLine="none";
        document.getElementById("txt").rows="10";

        document.getElementById("txt").style.border="10px dotted red";
        document.getElementById("txt").style.borderRadius="10px";
        i=1;
      }else{
        document.getElementById("txt").style.backgroundColor="white";
        document.getElementById("txt").style.color="black";
        document.getElementById("txt").style.textDecorationLine="underline";
        i=0;
        document.getElementById("txt").rows="7";
        document.getElementById("txt").style.border="10px dotted green";
      }
    }
  </script>
</html>
```

## 9.html - CALCULATOR

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8" />
    <title>Exercise 6</title>
    <style type="text/css">
      body {
        margin: 30px;
      }
      #calculator {
        position: relative;
        width: 400px;
        border: 2px solid black;
        border-radius: 10px;
        margin: 0px auto;
        padding: 20px 20px 20px 20px;
      }
      input[type=button] {
        background: black;
        color: white;
        width: 20%;
        height: 40px;
        font-size: 20px;
        border-width: 1px;
        border-radius: 7px;
        margin-left: 13px;
        margin-top: 10px;
      }
      input#op{
        background-color: indigo;
      }
      input#eq{
        background-color: yellowgreen;
      }
    </style>
  </head>
  <body>
    <a href="10.html" type="button" style="background-color: gray; color: white;
padding:5px; text-decoration: none;">MENU</a>
    <h1>CALCULATOR</h1>
    <div id="calculator">
      <div style="height: 50px; background-color: cornflowerblue;">
        </div>
        <input type="button" value=" C " />
        <input type="button" value=" +/- " />
```

```

        <input type="button" value=" % " />
        <input id="op" type="button" value=" / " />
        <br>
        <input type="button" value=" 7 " />
        <input type="button" value=" 8 " />
        <input type="button" value=" 9 " />
        <input id="op" type="button" value=" X " />
        <br>
        <input type="button" value=" 4 " />
        <input type="button" value=" 5 " />
        <input type="button" value=" 6 " />
        <input id="op" type="button" value=" - " />
        <br>
        <input type="button" value=" 1 " />
        <input type="button" value=" 2 " />
        <input type="button" value=" 3 " />
        <input id="op" type="button" value=" + " />
        <br>
        <input type="button" value=" 0 " />
        <input type="button" value=" . " />
        <input type="button" value=" del " />
        <input id="eq" type="button" value=" = " />
    </div>
</div>
</body>
</html>

```

## 10.html - MENU

```

<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8" />
    <title>Exercise 6</title>
    <style type="text/css">
      body {
        margin: 30px;
      }
    </style>
  </head>
  <body>
    <h1>LINKS</h1>
    <ol>
      <li><a href="1.html">ADD, SUBTRACT, MULTIPLY, DIVIDE</a></li>
      <li><a href="2.html">FACTORIAL</a></li>
      <li><a href="3.html">FIBONACCI</a></li>
      <li><a href="4.html">PALINDROME</a></li>
    </ol>
  </body>
</html>

```

```
<li><a href="5.html">PRIME</a></li>
<li><a href="6.html">GRADES!!!</a></li>
<li><a href="7.html">GREETING!!!</a></li>
<li><a href="8.html">TEXT AREA</a></li>
<li><a href="9.html">CALCULATOR</a></li>
</ol>
</body>
</html>
```