TASKS:

1) Password Strength Checker:

Create an input field where a user types a password, and the script checks if the password is "Strong", "Medium", or "Weak" based on its length.

Code:

```
<style>
    body{
        font-family: Arial, sans-serif;
        display: flex;
        justify-content: center;
        align-items: center;
        background-color: #c6e9e36f;
    }
    .container {
        background-color: #6cd5c965;
        padding: 20px;
        border-radius: 12px;
        box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
        width: 20%;
    }
    #fm{
        display: flex;
        flex-direction: column;
        justify-items:center;
        align-items: center;
    }
    input{
        width: 70%;
        padding: 5px;
        margin: 10px;
        border-radius:5px;
    }
    #sub{
        width: 20%;
        padding: 5px;
        margin: 10px;
        border-radius:10px;
    }
    span{
        font-size: 12px;
        font-weight:bold;
        display: none;
    }
    </style>

</head>
<body>
    <div class="container">
        <form action="" id="fm">
            <h3>Password Strength Checker</h3>
            <input type="password" id="pass" placeholder="Enter password">
            <span></span>
            <input type="submit" id="sub" value="submit">
        </form>
    </div>

    <script>
```

```
var form=document.forms[0];
form.addEventListener("submit",function(event){
    event.preventDefault();
    var inp=document.getElementById("pass");
    var span=document.querySelector("span");
    var span=document.getElementsByTagName("span")[0];

    if(inp.value.length>10){
        span.innerHTML="password is strong";
        span.style.display="block";
        span.style.color="green";
    }
    else if(inp.value.length<=10 && inp.value.length>5){
        span.innerHTML="password is medium";
        span.style.display="block";
        span.style.color="orange";
    }
    else{
        span.innerHTML="password is week";
        span.style.display="block";
        span.style.color="red";
    }
})
</script>
```
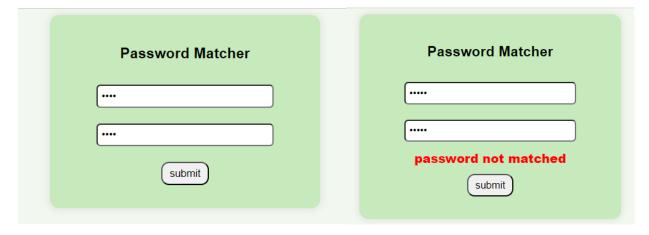
Output

2) **password matcher**

Code:

```
<style>
    body{
        font-family: Arial, sans-serif;
        display: flex;
        justify-content: center;
        align-items: center;
        background-color: #e3f1dd6f;
    }
    .container {
        background-color: #83d56c65;
        padding: 20px;
        border-radius: 12px;
        box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
        width: 20%;
    }
    #fm{
        display: flex;
        flex-direction: column;
        justify-items:center;
        align-items: center;
    }
    input{
        width: 70%;
        padding: 5px;
        margin: 10px;
        border-radius:5px;
    }
    #sub{
        width: 20%;
        padding: 5px;
        margin: 10px;
        border-radius:10px;
    }
    span{
        color: red;
        font-weight:900;
        display: none;
    }
    </style>
</head>
<body>
    <div class="container">
        <form action="" id="fm">
            <h3>Password Matcher</h3>
            <input type="password" id="pass1" placeholder="Enter password">
            <input type="password" id="pass2" placeholder="Confirm password">
            <span>password not matched</span>
            <input type="submit" id="sub" value="submit">
        </form>
    </div>

    <script>
        var form=document.forms[0];
        form.addEventListener("submit",function(event){
        event.preventDefault();
        var pass1=document.getElementById("pass1");
        var pass2=document.getElementById("pass2");

        if(pass1.value==pass2.value){
            console.log("password is matched");
        }
        else{
```

```
            var span=document.getElementsByTagName("span")[0];
            span.style.display="block";
            console.log("password not matched");
          }
        })
    </script>
</body>
```

Output

3) simple calculator

```
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0-beta3/css/all.min.css">
<style>
  h1{
      text-align: center;
  }
  .container{
      width: 27%;
      height: 500px;
      margin: auto;
      border: 2px solid black;
      display: grid;
      grid-template-columns: auto auto auto auto;
      grid-template-rows: 70px;
      gap: 10px;
      padding: 10px;
      background-color: rgba(144, 215, 238, 0.571);
  }
  #result{
      grid-column: 1/4;
      height: 55px;
      text-align: right;
      padding-top: 10px;
      font-size: 24px;
      font-weight: 800;
      resize: none;
      scrollbar-width: none;
      background-color: rgb(180, 245, 248);
  }
  .button{
      font-size: 24px;
      font-weight: 500;
      background-color:rgba(4, 214, 251, 0.951) ;
  }
  .op{
      background-color: rgb(92, 131, 240);
  }
  .history{
      grid-column: 1/3;
      background-color: rgba(255, 0, 0, 0.682);
  }
  .clear{
      grid-column: 3/5;
      background-color: rgba(255, 0, 0, 0.682);
  }

</style>
</head>
<body>
  <h1>Calculator</h1>
  <div class="container">
```

```html
<textarea id="result"></textarea>
<button onclick="back()" class="button backspace" ><i class="fa-solid fa-delete-left"></i></button>

<input type="button" onclick="dis('7')" value="7" class="button">
<input type="button" onclick="dis('8')" value="8" class="button">
<input type="button" onclick="dis('9')" value="9" class="button">
<input type="button" onclick="dis('/')" value="/" class="button op">

<input type="button" onclick="dis('4')" value="4" class="button">
<input type="button" onclick="dis('5')" value="5" class="button">
<input type="button" onclick="dis('6')" value="6" class="button">
<input type="button" onclick="dis('*')" value="*" class="button op">

<input type="button" onclick="dis('1')" value="1" class="button">
<input type="button" onclick="dis('2')" value="2" class="button">
<input type="button" onclick="dis('3')" value="3" class="button">
<input type="button" onclick="dis('+')" value="+" class="button op">

<input type="button" onclick="dis('.')" value="." class="button op">
<input type="button" onclick="dis('0')" value="0" class="button">
<input type="button" onclick="solve(")" value="=" class="button op">
<input type="button" onclick="dis('-')" value="-" class="button op">

<input type="button" onclick="hist()" value="History" class="button history">
<input type="button" onclick="clr()" value="Clear" class="button clear">
</div>

<script>
    var his="";
    function dis(a){
        document.getElementById("result").value +=a;
        return a;
    }
    function back(){
        let x=document.getElementById("result").value;
        let y=';
        for(i=0;i<x.length-1;i++){
            y+=x[i];
        }
        document.getElementById("result").value=y;
    }
    function clr(){
        document.getElementById("result").value="";
    }
    function solve(){
        let x=document.getElementById("result").value;
        his +="->"+x+"\n";
        let y=eval(x);
        his +="="+y+"\n";
        document.getElementById("result").value=y;
        return y;
    }
    function hist(){
        document.getElementById("result").value=his;
    }
</script>
```

Calculator

			⌫
7	8	9	/
4	5	6	*
1	2	3	+
.	0	=	-
History		Clear	