**Write a program to create and Build a Password Strength Check using Jquery.**

**P5.html**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Password Strength Checker</title>

<style>

  .password-strength {

    margin-top: 10px;

    padding: 5px;

    width: 250px;

    font-size: 14px;

  }

  .strength-meter {

    height: 20px;

    margin-top: 15px;

  }

  .very-weak { background-color: #ff4d4d; }

  .weak { background-color: #ffa500; }

  .medium { background-color: #ffd700; }

  .strong { background-color: #7fff00; }

  .very-strong { background-color: #00ff00; }

</style>

</head>

<body>

<div>

  <label for="password">Enter your password:</label>

  <input type="password" id="password" name="password" />

</div>

<div class="password-strength">

  <div class="strength-meter"></div>

</div>

<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>

<script src="strengthchecker.js"></script>

</body>

</html>

**strengthchecker.js**

$(document).ready(function() {

    $('#password').on('input', function() {

      var password = $(this).val();

      var meter = $('.strength-meter');

      var strength = 0;

      var progressClass = '';

      // Check length

      if (password.length > 8) {

        strength += 1;

      }

      // Check if password contains uppercase letter

      if (password.match(/[A-Z]/)) {

        strength += 1;

      }

      // Check if password contains lowercase letter

      if (password.match(/[a-z]/)) {

        strength += 1;

      }

      // Check if password contains number

      if (password.match(/\d/)) {

        strength += 1;

      }

      // Check if password contains special character

      if (password.match(/[!@#$%^&\*(),.?":{}|<>]/)) {

        strength += 1;

      }

      // Determine progress bar class

      switch(strength) {

        case 0: progressClass = 'very-weak'; break;

        case 1: progressClass = 'weak'; break;

        case 2: progressClass = 'medium'; break;

        case 3: progressClass = 'strong'; break;

        case 4: progressClass = 'very-strong'; break;

        default: progressClass = 'very-weak';

      }

      // Update progress bar

      meter.removeClass().addClass('strength-meter').addClass(progressClass);

    });

  });