```
/ . ctrim(preg_replace('/\\\/', '/', $image_src), '/');
                                    Empty.html
                    $_SESSION['_CAPTCHA']['config'] = serialize($captcha_config);
send_form_email.php
                     'code' => $captcha_config['code'],
                     'image_src' => $image_src
             Learn to code in
custom.css
theme.css
theme-animate.css
heme-blog<sub>.CSS</sub>
                             60 mins
neme-elements.css
eme-shop.css
                                                                    hex string
             99
                     $rgb
                          Learn@Lunch - Pravin Paratey
                     $rgb
            101
```

```
mexdec(str_repeat(substr($nex_str, 1, 1), 2));

hexdec(str_repeat(substr($nex_str, 1, 1), 2));
                                                           cor_repeat(substr($hex_str, 0, 1), 2));
                                                    nexdec(str_repeat(substr($hex_str, 1, 1), 2));
                                   return false;
                             return $return_string ? implode($separator $ret
                      // Draw the image
                 109 V if( isset ($ GET | 10)
x.php
```

5 ntml

# **About Me**

- Coding / Programming for 25 years, 15 professionally.
- Head of Engineering for IHT and CORGI.
- Worked at 5 startups, co-founded 3, ex-Facebook.





#### **Lesson 1 - Hello World!**

```
<html>
<head>
<title>Hello World!</title>
</head>
<body>
<h1>Hello World!</h1>
</body>
</html>
```

- ı. Open Notepad.
- 2. Write the code you see to the left.
- 3. Save the file as lesson.html on your Desktop.
- 4. Navigate to the Desktop and double click the file to see it in your browser.
- 5. Tada!
- 6. **Exercise:** Try adding some more text before </body> and see what happens

# Lesson 2 - Variables

```
<html>
<head>
   <title>Hello World!</title>
</head>
 <body>
   <h1>Hello World!</h1>
   <script>
   var name = "Pravin";
   document.writeln("My name is " + name);
   </script>
 </body>
</html>
```

# Lesson 2 - Variables

```
<html>
<head>
  <title>Hello World!</title>
</head>
<body>
   <h1>Hello World!</h1>
  <script>
              "Pravin";
   var name
   document.writeln("My name is " + name);
   </script>
</body>
</html>
```

- 1. A variable is a placeholder to which you can assign a value.
- 2. A variable can be named anything as long as it starts with a letter.
- 3. A variable can have a string value, an integer (number), or more complex values (arrays).
- 4. Try changing the word "name" to "apricot".
- 5. **Exercise**: Try showing "My name is X and I like Y" on the screen.

# Lesson 2 - Variables

```
<html>
<head>
  <title>Hello World!</title>
</head>
<body>
  <h1>Hello World!</h1>
  <script>
  var name = "Pravin";
  var sport = "Chocolate";
  document.writeln("My name is " + name);
  document.writeln(" and I like " + like);
  </script>
</body>
</html>
```

Did you get something similar?

```
<h1>Hello World!</h1>
<form id="myForm" onsubmit="onSubmit()">
    <label for="name">Name</label>
    <input type="text" id="name" name="name">
    <br>
    <label for="sport">Sport</label>
    <select id="sport">
        <option value="football">Football</option>
        <option value="pingpong">Ping Pong</option>
        <option value="golf">Golf</option>
        <option value="chess">Chess</option>
    </select>
    <br>
    <input type="submit" id="submit">
</form>
<script>
function onSubmit() {
    var name = document.getElementById("name").value;
    var sport = document.getElementById("sport").value;
    document.writeln("My name is " + name);
```

# Lesson 3 - Forms

- You use forms everyday!
- Forms allow computers to capture human input.
- <input lets you capture text
- <select with <option is used to restrict input to predefined choices.
- **Exercise** Try adding an input field to capture the user's email address, and then print it when they hit the submit button.

```
<form id="myForm" onsubmit="onSubmit()">
       <label for="name">Name</label>
       <input type="text" id="name" name="name">
       <hr>
       <label for="email">Fmail</label>
       <input type="text" id="email" name="email">
       <hr>
       <label for="sport">Sport</label>
. . .
       <br>
       <input type="submit" id="submit">
  </form>
  <script>
  function onSubmit() {
      var name = document.getElementById("name").value;
      var sport = document.getElementById("sport").value;
      var email = document.getElementById("email").value;
       document.writeln("My name is " + name);
       document.writeln(" and I like " + sport);
       document.writeln(". My email address is " + email);
   </script>
```

#### **Lesson 3 - Forms**

Did your code look like this?

```
function onSubmit() {
    var name = document.getElementById("name").value;
    var sport = document.getElementById("sport").value;
    document.writeln("My name is " + name);
    document.writeln(" and I like " + sport);
}

var random = Math.floor(Math.random() * 10 + 1);
document.writeln("<br>i just generated a random number: " + random);
</script>
```

- Fundamental control structure in every language.
- Allows you to choose what path to take

```
function onSubmit() {
   var name = document.getElementById("name").value;
    var sport = document.getElementById("sport").value;
    document.writeln("My name is " + name);
   document.writeln(" and I like " + sport);
var random = Math.floor(Math.random() * 10 + 1);
document.writeln("<br>>I just generated a random number: " + random);
if(random <= 5) {</pre>
   document.writeln("<br>>You are on team A");
} else {
   document.writeln("<br>>You are on team B");
</script>
```

```
function onSubmit() {
    var name = document.getElementById("name").value;
    var sport = document.getElementById("sport").value;
    document.writeln("My name is " + name);
   document.writeln(" and I like " + sport);
var random = Math.floor(Math.random() * 10 + 1);
document.writeln("<br>>I just generated a random number: " + random);
if(random <= 5) {
   document.writeln("<br>>You are on team A");
} else {
   document.writeln("<br>>You are on team B");
</script>
```

**Exercise** - If the user selects your favourite sport, display an additional message.

```
function onSubmit() {
    var name = document.getElementById("name").value;
     var sport = document.getElementById("sport").value;
     document.writeln("My name is " + name);
     document.writeln(" and I like " + sport);
    if (sport == "chess") {
        document.writeln(". Check mate!")
var random = Math.floor(Math.random() * 10 + 1);
 document.writeln("<br>>I just generated a random number: " + random);
```

Did you write something similar?

# Programmer joke

A wife sends her programmer husband to the grocery store for a loaf of bread.

On his way out, she says, "And if they have eggs, get a dozen."

Her husband returns home with 12 loaves of bread.

# **Lesson 5 - Styling**

```
<title>Hello World!</title>
  <style>
  body {
      font-family: cursive;
      font-size: 18;
      color: blue;
      padding:20;
  }
  #myForm {
      background-color: yellow;
      padding: 20;
  }
  </style>
</head>
<body>
```

- Styles determine the look and feel of the page and its elements.
- Styling is usually independent of code, which means you can make sure it works before making it pretty.
- Try changing the color to salmon, indianred, plum, or lime.
- Try changing **font-family** to **serif**, **fantasy** or **monospace**.
- Over 360+ properties

**Exercise** - Make the headline (h1) larger



# Coding isn't hard or scary

Coding is fun!

# **Learn More**

- Online (Free / Cheap)
  - Coursera
  - FreeCodeCamp
  - <u>CodeAcademy</u>
  - <u>University of Reading</u>
  - <u>Open University</u>
  - <u>Udemy</u>
  - <u>Code for Life</u>
  - <u>Code.org</u>
  - Youtube

- Real World (Free)
  - Girls Who Code
  - Founders and Coders
- Real World (Not-so-cheap)
  - University Adult Education Programs
  - General Assembly
  - Makers Academy



pravin.paratey@ovoenergy.com