

Chapter 03 – Computer Science (Class 10)

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Extended Response Questions

Question 3. Write answers of the following extended response questions in the form of code.

1. For a Bakery, design a simple HTML form to take order online, which includes:

Answer.

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <title>Order Your Delicious Cake</title>
5 </head>
6 <body>
7   <h2>Order Your Delicious Cake</h2>
8   <form onsubmit="submitOrder(); return false;">
9     <p>Delivery or Pickup?</p>
10    <input type="radio" name="delivery" value="Home Delivery" required> Home Delivery
11    <input type="radio" name="delivery" value="Self Pickup"> Self Pickup
12
13    <p>Choose Your Cake Size:</p>
14    <select name="cakeSize">
15      <option>Small (Serves 4+)</option>
16      <option>Medium (Serves 8+)</option>
17      <option>Large (Serves 12+)</option>
18    </select>
19
20    <p>Extra Delight (Check all that apply):</p>
21    <input type="checkbox" name="extras" value="Chocolate Chips"> Chocolate Chips<br>
22    <input type="checkbox" name="extras" value="Fresh Strawberries"> Fresh Strawberries<br>
23    <input type="checkbox" name="extras" value="Rainbow Sprinkles"> Rainbow Sprinkles<br>
24
25    <p>Extras:</p>
26    <input type="checkbox" name="extraItems" value="Birthday Candles"> Birthday Candles<br>
27    <input type="checkbox" name="extraItems" value="Colorful Balloons"> Colorful Balloons<br><br>
28
29    <button type="submit">Place Order</button>
30  </form>
31
32  <script>
33    function submitOrder() {
34      let orderNum = Math.floor(Math.random() * 100000);
35      alert("Your order has been submitted! Order number: " + orderNum);
36    }
37  </script>
38 </body>
39 </html>
40
```

Output: -

Order Your Delicious Cake

Delivery or Pickup?

☐ Home Delivery ☐ Self Pickup

Choose Your Cake Size:

Small (Serves 4+) ▼

Extra Delight (Check all that apply):

- ☐ Chocolate Chips
- ☐ Fresh Strawberries
- ☐ Rainbow Sprinkles

Extras:

- ☐ Birthday Candles
- ☐ Colorful Balloons

Place Order

This page says

Your order has been submitted! Order number: 67146

OK

2. Design a website titled "My Weekly Evening Schedule", as follows:

Answer:

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <title>My Weekly Evening Schedule</title>
5 </head>
6 <body>
7   <h1>My Weekly Evening Schedule</h1>
8   <table border="1" cellpadding="10">
9     <tr>
10      <th>Day</th>
11      <th>Activity</th>
12    </tr>
13    <tr><td>Monday</td><td>Karate Class</td></tr>
14    <tr><td>Tuesday</td><td>Calligraphy Lessons</td></tr>
15    <tr><td>Wednesday</td><td>Math Test</td></tr>
16    <tr><td>Thursday</td><td>Gardening</td></tr>
17    <tr><td>Friday</td><td>Programming Practice</td></tr>
18  </table>
19 </body>
20 </html>
21
```

Output:

My Weekly Evening Schedule

Day	Activity
Monday	Karate Class
Tuesday	Calligraphy Lessons
Wednesday	Math Test
Thursday	Gardening
Friday	Programming Practice

3.(a) Write code to display the following table.

Answer:

```
1 <!DOCTYPE html>
2 <html>
3 <head><title>My Favorite Fruits</title></head>
4 <body>
5   <h1>My Favorite Fruits</h1>
6   <table border="1" cellpadding="10">
7     <tr>
8       <th>Fruit Name</th>
9       <th>Color</th>
10    </tr>
11    <tr><td>Apple</td><td>Red</td></tr>
12    <tr><td>Banana</td><td>Yellow</td></tr>
13    <tr><td>Orange</td><td>Orange</td></tr>
14  </table>
15 </body>
16 </html>
17
```

Output:

My Favorite Fruits

Fruit Name	Color
Apple	Red
Banana	Yellow
Orange	Orange

3.(b) Now Change the table appearance as follows:

Answer:

```
1  <!DOCTYPE html>
2  <html>
3  <head>
4    <style>
5      table {
6        border-collapse: collapse;
7        width: 30%;
8        font-family: Arial;
9      }
10     th {
11       background-color: purple;
12       color: white;
13       padding: 10px;
14     }
15     td {
16       text-align: center;
17       padding: 10px;
18     }
19   </style>
20 </head>
21 <body>
22   <h1>My Favorite Fruits</h1>
23   <table border="1">
24     <tr><th>Fruit Name</th><th>Color</th></tr>
25     <tr><td>Apple</td><td>Red</td></tr>
26     <tr><td>Banana</td><td>Yellow</td></tr>
27     <tr><td>Orange</td><td>Orange</td></tr>
28   </table>
29 </body>
30 </html>
31
```

Output:

My Favorite Fruits

Fruit Name	Color
Apple	Red
Banana	Yellow
Orange	Orange

4. Write code for: Blinking Text and Rotating Image

Answer:

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <style>
5     @keyframes blink {
6       0%, 100% { opacity: 1; }
7       50% { opacity: 0; }
8     }
9
10    @keyframes spin {
11      0% { transform: rotate(0deg); }
12      100% { transform: rotate(360deg); }
13    }
14
15    .blinking {
16      animation: blink 2s infinite;
17      color: blue;
18      font-weight: bold;
19    }
20
21    .rotating {
22      animation: spin 1s linear infinite;
23      width: 200px;
24    }
25  </style>
26 </head>
27 <body>
28   <h2>Blinking Text and Rotating Image</h2>
29   <p class="blinking">This text blinks blue!</p>
30   
31 </body>
32 </html>
33
```

Output:

Blinking Text and Rotating Image



5. Write code to change the bullets into ordered list for the program "Sum of first 10 integers."

Answer:

```
1  <!DOCTYPE html>
2  <html>
3  <head><title>Sum of Integers</title></head>
4  <body>
5    <h3>Sum of First 10 Integers</h3>
6    <ol>
7      <li>Start from 1</li>
8      <li>Add 2</li>
9      <li>Add 3</li>
10     <li>Keep adding up to 10</li>
11     <li>Calculate total</li>
12     <li>Display the result</li>
13   </ol>
14 </body>
15 </html>
16
```

Output:-

Sum of First 10 Integers

1. Start from 1
2. Add 2
3. Add 3
4. Keep adding up to 10
5. Calculate total
6. Display the result

6. Create an array with the following values and print it as follows:

Answer:

```
1 <!DOCTYPE html>
2 <html>
3 <head><title>Mixed Array</title></head>
4 <body>
5   <script>
6     let My_Mix_Array = ["apple", 3.14, true, "Ali", 25];
7     document.write("<h3>Mixed Array Elements:</h3>");
8     for (let i = 0; i < My_Mix_Array.length; i++) {
9       document.write(My_Mix_Array[i] + "<br>");
10    }
11  </script>
12 </body>
13 </html>
14
```

Output:

Mixed Array Elements:

apple
3.14
true
Ali
25

7. A list contains 10 entries and we want to search a particular value in the list. Write code, to determine how many iterations it took:

Answer:

```
1 <!DOCTYPE html>
2 <html>
3 <head><title>Search in List</title></head>
4 <body>
5   <script>
6     let list = [10, 22, 33, 45, 56, 67, 78, 89, 90, 100];
7     let searchValue = 67; // Change this to test
8     let found = false;
9     let count = 0;
10
11    for (let i = 0; i < list.length; i++) {
12      count++;
13      if (list[i] === searchValue) {
14        found = true;
15        break;
16      }
17    }
18
19    if (found) {
20      document.write("Value found in " + count + " iterations.");
21    } else {
22      document.write("Value not found after " + count + " iterations.");
23    }
24  </script>
25 </body>
26 </html>
27
```

Output:

Value found in 6 iterations.

The End

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