

1. Write a Script program to sort a given number and display the result.

Html

 Copy code

```
<script>  
  let numbers = [5, 3, 8, 1, 4];  
  numbers.sort((a, b) => a - b);  
  document.write("Sorted Numbers: " + numbers);  
</script>
```

Output:

Sorted Numbers: 1,3,4,5,8

2. Write a Script program using front page components.

FrontPage components are outdated, but it refers to basic HTML UI elements.

Html

 Copy code

```
<form>  
  Name: <input type="text" name="name"><br>  
  <input type="submit" value="Submit">  
</form>
```

3. Write a Script program using JavaScript.


Html

 Copy code

```
<script>  
  alert("Hello from JavaScript!");  
</script>
```

Output:

Popup alert showing: "Hello from JavaScript!"



4. Write a Script program using HTML tags.

Html

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```
<html>
  <body>
    <h1>This is a heading</h1>
    <p>This is a paragraph using HTML tags.</p>
  </body>
</html>
```

5. Write a Script program using methods to objects.

Html

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```
<script>
  let person = {
    firstName: "John",
    lastName: "Doe",
    fullName: function() {
      return this.firstName + " " + this.lastName;
    }
  };
  document.write(person.fullName());
</script>
```

Output:

John Doe



6. Write a Script program using JavaScript objects.

Html

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```
<script>
let car = {
  brand: "Toyota",
  model: "Corolla",
  year: 2022
};
document.write("Car: " + car.brand + " " + car.model);
</script>
```

Output:

Car: Toyota Corolla

7. Write a program working with XML documents.

Html

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```
<script>
let parser = new DOMParser();
let xmlString = "<note><to>User</to><from>Admin</from></note>";
let xmlDoc = parser.parseFromString(xmlString, "text/xml");
document.write("To: " + xmlDoc.getElementsByTagName("to")
[0].childNodes[0].nodeValue);
</script>
```

Output:

To: User

8. Write a program HTML and XML tags.

Html

 Copy code

```
<html>
  <body>
    <h2>XML Data</h2>
    <script>
      let xml = `<user><name>Alice</name></user>`;
      let xmlDoc = new DOMParser().parseFromString(xml, "text/xml");
      let name = xmlDoc.getElementsByTagName("name")
[0].childNodes[0].nodeValue;
      document.write("Name: " + name);
    </script>
  </body>
</html>
```

Output:

Name: Alice

9. Write a program JavaScript with XML tags.

Same as #8 – parsing XML in JavaScript.

10. Create a program on your own web using XML tags.

You can host a similar XML parser on your local or online server:

Html

 Copy code

```
<!DOCTYPE html>
<html>
<body>
<h2>Using XML on Web</h2>
<div id="output"></div>

<script>
  let xmlData = "<product><name>Phone</name><price>500</price></product>";
  let parser = new DOMParser();
  let xmlDoc = parser.parseFromString(xmlData, "text/xml");
  let name = xmlDoc.getElementsByTagName("name")
[0].childNodes[0].nodeValue;
  let price = xmlDoc.getElementsByTagName("price")
[0].childNodes[0].nodeValue;
  document.getElementById("output").innerHTML = "Product: " + name
+ ", Price: $" + price;
</script>
</body>
</html>
```

Output:

Product: Phone, Price: \$500