

OUTPUT

Currency Converter

Euro



TO

Pkr



10

Calculate

1976.1000000000001

Prime numbers upto this amount:

2, 3, 5, 7

Even Numbers upto this amount:

2, 4, 6, 8, 10

Index of Prime Number = 1

Index of Even Number = 4

Index of Prime Number is "less than" Index of Even Number

HTML

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <link rel="stylesheet" href="style.css">
  <script src="script.js"></script>

  <title>Currency Converter</title>
</head>
<body>
  <div class="container">
    <h1 class="title">Currency Converter</h1>
    <div class="dropdown">
      <select class="DropDown" name="Money_1" id="Money_1" value="Select">
        <option value="PKR">Pkr</option>
        <option value="EURO">Euro</option>
        <option value="DOL">Dollar</option>
      </select>
      <label class="LABEL">TO</label>
      <select class="DropDown" name="Money_2" id="Money_2" value="Select">
        <option value="PKR">Pkr</option>
        <option value="EURO">Euro</option>
        <option value="DOL">Dollar</option>
      </select>
      <br>
      <input class="InputLabel" id = "Input" type="text" placeholder="Enter
Amount" class="input_amount">
      <button class="btn" onclick="assignvalues()">Calculate</button>
      <input class = "InputLabel" type="text" id="Result"
placeholder="output" readonly>
    </div>
    <br>
    <div class="PrimeEvenBox">
      <h4>Prime numbers upto this amount: </h4>
      <div id="prime"></div><br>
      <h4>Even Numbers upto this amount: </h4>
      <div id="even"></div><br>
    </div>

    <h4 class="BoxText">Index of Prime Number = </h4>
    <span id="PrimeNumberID"></span><br>
    <h4 class="BoxText">Index of Even Number = </h4>
    <span id="EvenNumberID"></span>
  </div>

```

```

        <h4 id="Result_Check" class="BoxText"></h4>

    </div>
</body>
</html>

```

CSS

```

body{
    background-color: white;
}
.container{
    position: absolute;
    left: 50%;
    top: 50%;
    transform: translate(-50%,-50%);
    width: 40%;
    height: 85%;
    text-align: center;
    background-color: white;;
    border-radius: 10px;
    border: 2px solid #000;
    box-shadow: 0 0 10px 5px rgba(0,3,13);
}
.title{
    margin-bottom: 20px;
}
.DropDown{
    width: 150px;
    height: 40px;
}
.LABEL{
    margin-left: 40px;
    margin-right: 40px;
}
.InputLabel{
    margin-top: 20px;
    width: 150px;
    height: 30px;
}
.btn{
    margin-left: 10px;
    margin-right: 10px;
    height: 30px;
}

```

```

    background-color: white;
    border-radius: 5px;
}
.BoxText{
    display: inline-block;
    margin-top: 10px;
}
.PrimeEvenBox{
    border: 1px solid black;
}

```

JAVASCRIPT

```

var amount;
var from, to;

function assignVar() {
    amount = +document.getElementById("Input").value;
}

function assignfrom() {
    from = document.getElementById("Money_1").value;
}

function assignto() {
    to = document.getElementById("Money_2").value;
}

function covertAmount() {
    var result;
    if (from == 'PKR' && to == 'DOL') {
        result = amount * 0.0057;
        document.getElementById("Result").setAttribute('value', result);
    }
    if (from == 'PKR' && to == 'EURO') {
        result = amount * 0.0051;
        document.getElementById("Result").setAttribute('value', result);
    }
    if (from == 'DOL' && to == 'PKR') {
        result = amount * 176.25;
        document.getElementById("Result").setAttribute('value', result);
    }
    if (from == 'DOL' && to == 'EURO') {

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```

        result = amount * 0.89;
        document.getElementById("Result").setAttribute('value', result);
    }
    if (from == 'EURO' && to == 'DOL') {
        result = amount * 1.12;
        document.getElementById("Result").setAttribute('value', result);
    }
    if (from == 'EURO' && to == 'PKR') {
        result = amount * 197.61;
        document.getElementById("Result").setAttribute('value', result);
    }
    if (from == 'EURO' && to == 'EURO') {
        result = amount;
        document.getElementById("Result").setAttribute('value', result);
    }
    if (from == 'PKR' && to == 'PKR') {
        result = amount;
        document.getElementById("Result").setAttribute('value', result);
    }
    if (from == 'DOL' && to == 'DOL') {
        result = amount;
        document.getElementById("Result").setAttribute('value', result);
    }
}

function assignvalues() {
    assignVar();
    assignfrom();
    assignto();
    covertAmount();
    if (amount != 0) {
        let PrimeVar = Prime(amount);
        document.getElementById("prime").innerHTML = PrimeVar;

        let EvenVar = Even(amount);
        document.getElementById("even").innerHTML = EvenVar;
    }
}

function Prime(value) {
    let PrimeVar = "";
    PrimeVar += "2, ";
    let check = 0;
    for (let i = 3; i <= value; i++) {
        check = 0;

```

```

        for (let j = 2; j < i; j++) {
            if (i % j == 0) {
                check = 1;
            }
        }
        if (check == 0) {
            PrimeVar += i + ", ";
        }
    }
    res = PrimeVar.replace(/[, ]+/g, " ").trim();
    const new_string = res.split(" ");
    let str = "";
    for (let i = 0; i < new_string.length; i++) {
        if (i == new_string.length - 1) {
            str =
                str +
                "<span id=" +
                i +
                " onmouseover='primeIndex(this.id)'>" +
                new_string[i] +
                "" +
                "</span>";
        } else {
            str =
                str +
                "<span id=" +
                i +
                " onmouseover='primeIndex(this.id)'>" +
                new_string[i] +
                ", " +
                "</span>";
        }
    }
}

return str;
}

function Even(value) {
    let EvenVar = "";
    for (let i = 2; i <= value; i++) {
        if (i % 2 == 0) {
            EvenVar += i + ",";
        }
    }
    res = EvenVar.replace(/[, ]+/g, " ").trim();

```

```

const new_string = res.split(" ");
let str = "";
for (let i = 0; i < new_string.length; i++) {
    if (i == new_string.length - 1) {
        str =
            str +
            "<span id=" +
            i +
            " onmouseover='evenIndex(this.id)'>" +
            new_string[i] +
            "" +
            "</span>";
    } else {
        str =
            str +
            "<span id=" +
            i +
            " onmouseover='evenIndex(this.id)'>" +
            new_string[i] +
            ", " +
            "</span>";
    }
}

return str;
}

function isHoverOnBoth() {
    if (Check_Prime == -1 || Check_Even == -1) {
        return;
    } else if (Check_Prime != -1 && Check_Even != -1) {
        if (Check_Prime > Check_Even) {
            document.getElementById("Result_Check").innerHTML =
                'Index of Prime Number is "greater than" Index of Even Number';
        } else if (Check_Even > Check_Prime) {
            document.getElementById("Result_Check").innerHTML =
                'Index of Prime Number is "less than" Index of Even Number';
        } else if (Check_Even == Check_Prime) {
            document.getElementById("Result_Check").innerHTML =
                'Index of Prime Number is "equal than" Index of Even Number';
        }
    }
}

let Check_Prime = -1,
    Check_Even = -1;
function evenIndex(id) {

```

```
    Check_Even = parseInt(id);  
    let x = parseInt(id) + 1;  
    document.getElementById("EvenNumberID").innerHTML = x;  
    isHoverOnBoth();  
}  
function primeIndex(id) {  
    Check_Prime = parseInt(id);  
    let x = parseInt(id) + 1;  
    document.getElementById("PrimeNumberID").innerHTML = x;  
    isHoverOnBoth();  
}
```