

## LAB 5 (JavaScript III)

### Exercise 1.1

```
<html>

<head>

  <script language="javascript">

    function calculateIncome(name, cash, rent, book)

    {

      var expenses = parseFloat(incForm.rent.value) +
parseFloat(incForm.book.value);

      var balance = parseFloat(incForm.cash.value) - expenses;

      alert("Hello " + incForm.name.value +

        "\nYour cash at hand is " + incForm.cash.value +

        "\nYou've spent " + expenses + " for house rent and books" +

        "\nYour current balance is " + balance);

    }

  </script>

</head>

<body>

  <h1>Income Calculator</h1>

  <form name="incForm" onsubmit="calculateIncome()" method="post" action="">

    <label for="name">Student Name:</label>

    <input type="text" id="name" name="name" required></div><br>

    <label for="id">Student ID:</label>

    <input type="text" id="id" name="id"></div><br>

    <label for="cash">Cash at hand (RM):</label>

    <input type="text" id="cash" name="cash" required></div><br>

    <label for="rent">House rent (RM):</label>

    <input type="text" id="rent" name="rent" required></div><br>

    <label for="book">Books (RM):</label>

    <input type="text" id="book" name="book" required></div><br>

    <input type="submit" name="Calculate" value="Calculate">
```

```
        <input type="reset" name="Reset" value="Reset">
    </form>
</body>
</html>
```

## Income Calculator

Student Name:

Student ID:

Cash at hand (RM):

House rent (RM):

Books (RM):

This page says

Hello Hasyim

Your cash at hand is RM180

You've spent RM50 for house rent and books

Your current balance is RM130

OK

### Exercise 2.1

```
<html>
<head>
    <script language="javascript">
        function calculateVCube(length)
        {
            var volume = parseFloat(cubeForm.length.value) *
parseFloat(cubeForm.length.value) * parseFloat(cubeForm.length.value);
            alert("The volume of cube with length "+cubeForm.length.value+" is
"+volume);
        }
    </script>
</head>
<body>
    <h1>Volume of Cube Calculator</h1>
    <form name="cubeForm" onsubmit="calculateVCube()" method="post" action="">
        <label for="length">Enter cube length:</label>
        <input type="text" id="length" name="length" required></div><br>
        <input type="submit" name="Calculate" value="Calculate">
        <input type="reset" name="Reset" value="Reset">
```

```
</form>

</body>

</html>
```

## Volume of Cube Calculator

Enter cube length:

This page says

The volume of cube with length 3.5 is 42.875

OK

### Exercise 3.1

```
<html>

<head>

  <script language="javascript">

    function calculateBMI(height, weight)

    {

      height = parseFloat(bmiForm.height.value);

      var bmi = parseFloat(bmiForm.weight.value) / Math.pow(height, 2);

      document.getElementById("bmi").value = bmi.toFixed(2);

      if (bmi >= 18.50 && bmi <= 24.99)

      {document.getElementById("normal").checked = true;}

      else if (bmi >= 25.00 && bmi <= 29.99)

      {document.getElementById("over").checked = true;}

      else if (bmi >= 30)

      {document.getElementById("obese").checked = true;}

    }

  </script>

</head>

<body>

  <h1>BMI Calculator</h1>

  <form name="bmiForm" onSubmit="return false" method="post" action="">

    <label for="height">Height (in meter):</label>

    <input type="text" id="height" name="height" required></div><br>

    <label for="weight">Weight (in kg):</label>
```

```
<input type="text" id="weight" name="weight" required></div><br><br>
<input type="submit" name="Compute BMI" onclick="calculateBMI()"
value="Compute BMI">

<input type="reset" name="Clear Entry" value="Clear Entry">

<hr>

<label for="BMI">BMI:</label>

<input type="text" id="bmi" name="bmi"></div><br>

<label for="cate">BMI Category:</label>

<input type="radio" id="normal" name="normal" value="normal">

<label for="normal"> Normal </label>

<input type="radio" id="over" name="over" value="over">

<label for="over"> Overweight </label>

<input type="radio" id="obese" name="obese" value="obese">

<label for="obese"> Obesity </label>

</form>

<div id="time"></div>

<script>

function t() {

document.getElementById('time').innerHTML = new Date();

}

t();

window.setInterval(t, 1000);

</script>

</body>

</html>
```

## BMI Calculator

Height (in meter):

Weight (in kg):

---

BMI:

BMI Category: ☒ Normal ☐ Overweight ☐ Obesity

Tue Dec 15 2020 12:58:37 GMT+0800 (Malaysia Time)