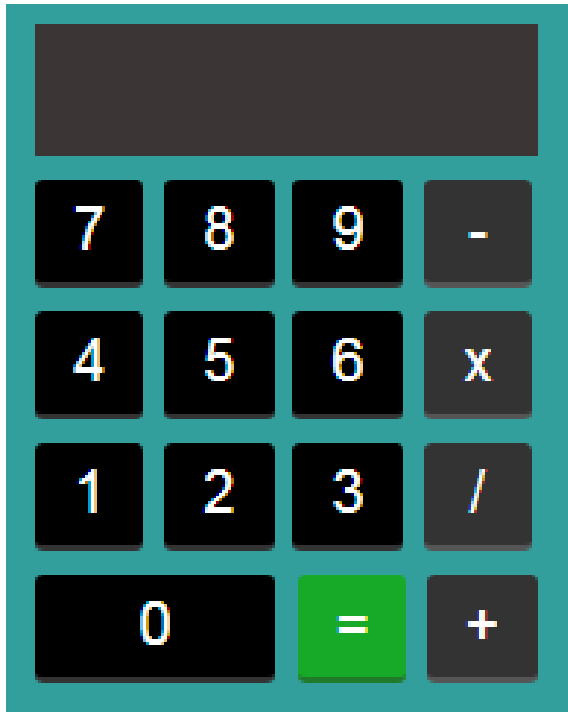


SOAL TP

1. Buatlah sebuah aplikasi kalkulator sederhana menggunakan JQuery. Setiap fungsi kalkulasi (+, -, *, /) dibuat dengan function yang terpisah (ex: *function plus() {}*). Usahakan mengerjakan sendiri (tidak copas dari website) dan tidak diperbolehkan menggunakan plugins.



2. Buatlah sebuah tampilan Form dan Tabel seperti gambar di bawah ini.
 - a. Buatlah kode fungsi JQuery ketika tombol **"Simpan"** di-click maka isi dari Form tersebut akan menambahkan record / baris pada Tabel.
 - b. Buatlah kode fungsi JQuery ketika tombol **"Hapus"** di-click maka baris record pada table tersebut terhapus. Gunakan popup confirm (yes, no) untuk menanyakan apakah baris tersebut benar-benar akan dihapus (lihat gambar).

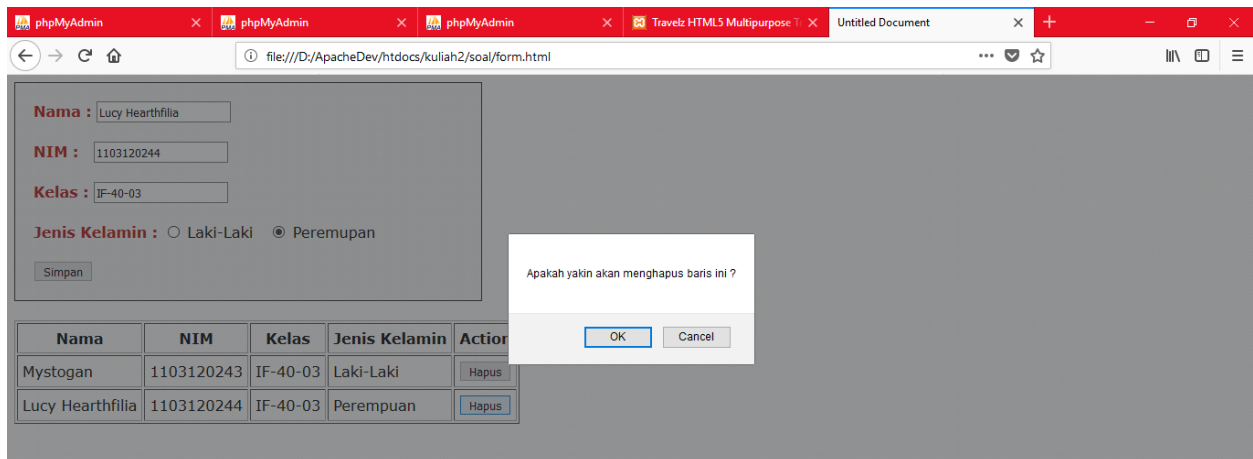
Nama :

NIM :

Kelas :

Jenis Kelamin : ☐ Laki-Laki ☐ Perempuan

Nama	NIM	Kelas	Jenis Kelamin	Action
Mystogan	1103120243	IF-40-03	Laki-Laki	<input type="button" value="Hapus"/>



- Buatlah tampilan seperti dibawah ini. Kemudian buatlah sebuah fungsi JQuery, ketika tombol “A”, “B”, “C”, ..., “Z” ditekan maka akan menampilkan 3 nama binatang yang huruf depannya sesuai dengan huruf pada setiap tombol (lihat gambar). Katika salah satu tombol ditekan maka warnanya berubah menjadi merah dengan huruf berwarna putih (lihat gambar).

Buatlah tampilan ini dalam 3 bentuk, perhatikan ketentuan berikut.

 - Gunakan **div** pada masing-masing nama hewan, kemudian gunakan fungsi **show()** dan **hide()** untuk menampilkan nama hewan sesuai dengan tombol yang di tekan. Contoh:

```

71 <div>- ANGSA</div>
72 <div>- ANJING</div>
73 <div>- ANOA</div>
74 <div>- BABI</div>
75 <div>- BADAK</div>
76 <div>- BAJING</div>
77 <div>- CACING</div>
78 <div>- CAMAR</div>
79 <div>- CAPUNG</div>
80 <div>- DARA</div>
81 <div>- DOMBA</div>
82 <div>- DUYUNG</div>

```

- b. Gunakan array untuk menyimpan nama hewan. Kemudian tampilkan nama hewan yang sesuai dengan tombol.
- c. Gunakan bentuk **JSON** dalam file terpisah (file **.json**) untuk menyimpan nama hewan. Kemudian gunakan fungsi **ajax()** untuk memanggil file .json dan membaca isi dari file JSON tersebut. Selanjutnya tampilkan nama hewan yang sesuai dengan tombol.

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

- ANGSA
- ANJING
- ANOA

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

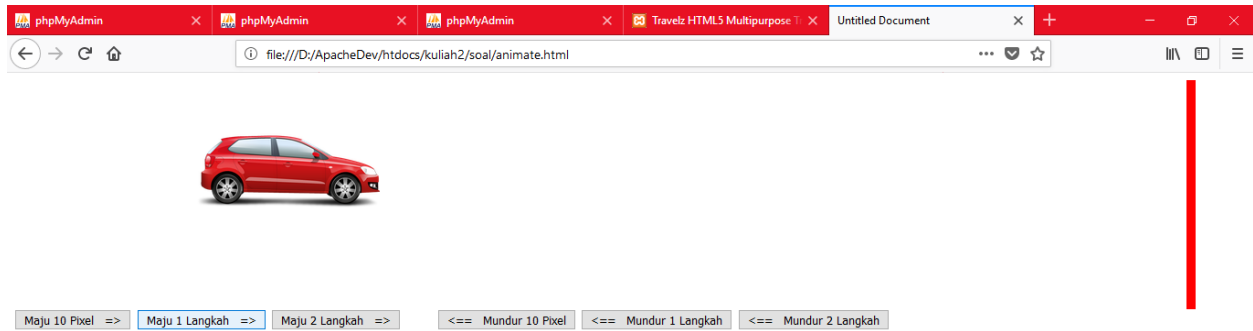
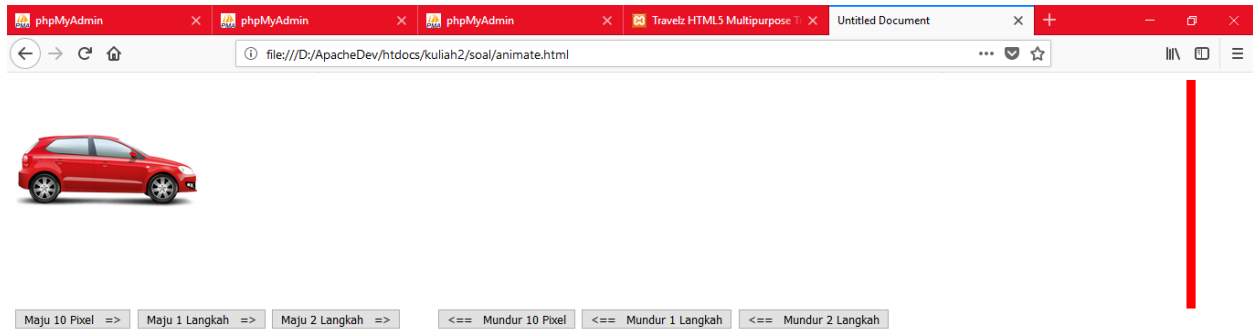
- BABI
- BADAK
- BAJING

4. Buatlah tampilan seperti gambar dibawah ini.

Buatlah fungsi JQuery untuk 6 Tombol pada tampilan tersebut untuk membuat mobil bergerak maju dan mundur. Ketika mobil menabrak garis warna merah maka mobil tersebut berhenti bergerak.

Keterangan:

- Maju 10 Pixel : Gambar mobil bergerak maju sebesar 10 pixel.
- Maju 1 Langkah : Gambar mobil bergerak maju sebesar lebar (width) gambar mobil.
- Maju 2 Langkah : Gambar mobil bergerak maju sebesar 2 kali lebar (width) gambar mobil.
- Mundur 10 Pixel : Gambar mobil bergerak mundur sebesar 10 pixel.
- Mundur 1 Langkah : Gambar mobil bergerak mundur sebesar lebar (width) gambar mobil.
- Mundur 2 Langkah : Gambar mobil bergerak mundur sebesar 2 kali lebar (width) gambar mobil.



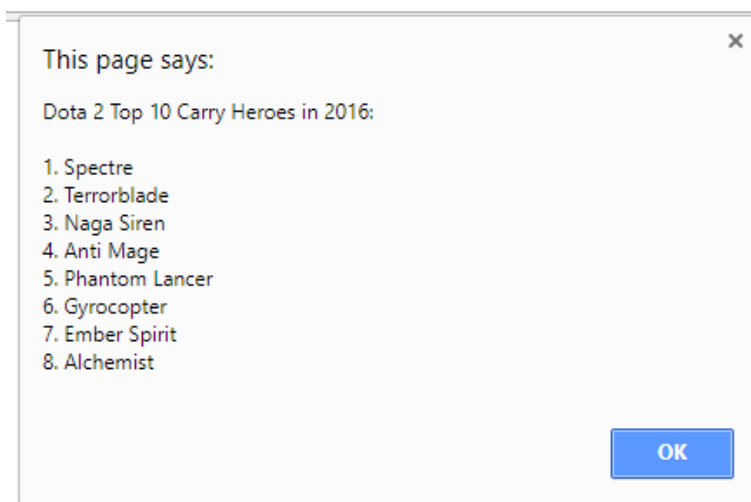
Link gambar: <http://www.free-icons-download.net/images/car-icon-13955.png>

SOAL TEST AKHIR

1. Buatlah fungsi JQuery untuk mengubah kode HTML berikut:

```
11 <ul>
12   <li>Spectre</li>
13   <li>Terrorblade</li>
14   <li>Naga Siren</li>
15   <li>Anti Mage</li>
16   <li>Phantom Lancer</li>
17   <li>Gyrocopter</li>
18   <li>Ember Spirit</li>
19   <li>Alchemist</li>
20 </ul>
```

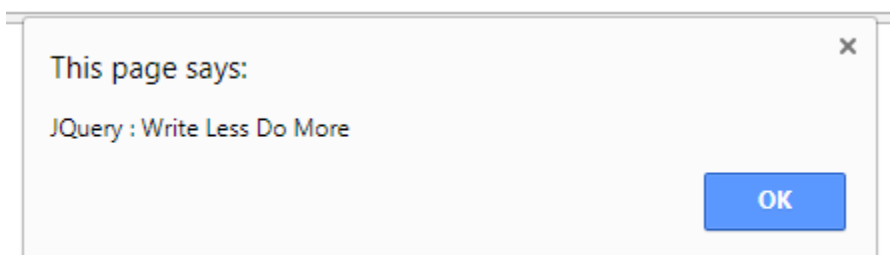
Menjadi popup alert seperti pada gambar dibawah ini. Jangan lupa menggunakan document ready.



2. Buatlah fungsi JQuery untuk mengubah kode HTML berikut:

```
22 <p class="class-paragraf" id="id_paragraf">JQuery : Write Less Do More</p>
```

Menjadi popup alert seperti pada gambar dibawah ini.



Buatlah fungsi dengan 3 variasi, sesuai dengan ketentuan berikut ini. Jangan lupa menggunakan document ready.

- a. Menggunakan selector **TagName**
- b. Menggunakan selector **ID**
- c. Menggunakan selector **Class**

3. Buatlah fungsi JQuery untuk mengubah kode HTML berikut:

```
24 <table id="table" border="1" cellpadding="5" width="100%">
25   <thead>
26     <tr>
27       <th>Nama</th>
28       <th>NIM</th>
29       <th>Kelas</th>
30       <th>Jenis Kelamin</th>
31     </tr>
32   </thead>
33   <tbody>
34     <tr><td>Mystogan</td>
35       <td>1103120243</td>
36       <td>IF-40-03</td>
37       <td>Laki-Laki</td>
38     </tr>
39     <tr><td>Natsu</td>
40       <td>1103120243</td>
41       <td>IF-40-03</td>
42       <td>Laki-Laki</td>
43     </tr>
44     <tr><td>Jellal</td>
45       <td>1103120243</td>
46       <td>IF-40-03</td>
47       <td>Laki-Laki</td>
48     </tr>
49     <tr><td>Lucy</td>
50       <td>1103120243</td>
51       <td>IF-40-03</td>
52       <td>Perempuan</td>
53     </tr>
54     <tr><td>Erza</td>
55       <td>1103120243</td>
56       <td>IF-40-03</td>
57       <td>Perempuan</td>
58     </tr>
59   </tbody>
60 </table>
```

Menjadi tampilan seperti pada gambar dibawah ini dengan ketentuan seperti berikut:

Note: Jangan lupa menggunakan JQuery bukan CSS.

- a. Baris 1, 3, 5 menjadi warna kuning dengan menggunakan fungsi **css()**

Nama	NIM	Kelas	Jenis Kelamin
Mystogan	1103120243	IF-40-03	Laki-Laki
Natsu	1103120243	IF-40-03	Laki-Laki
Jellal	1103120243	IF-40-03	Laki-Laki
Lucy	1103120243	IF-40-03	Perempuan
Erza	1103120243	IF-40-03	Perempuan

b. Baris 3,4 menjadi warna biru dengan menggunakan fungsi **addClass()**

Nama	NIM	Kelas	Jenis Kelamin
Mystogan	1103120243	IF-40-03	Laki-Laki
Natsu	1103120243	IF-40-03	Laki-Laki
Jellal	1103120243	IF-40-03	Laki-Laki
Lucy	1103120243	IF-40-03	Perempuan
Erza	1103120243	IF-40-03	Perempuan

JAWABAN TP

1. Soal Nomor 1 Kalkulator

```
<!doctype html>
<html>
<head>
<meta charset="utf-8">
<title>Untitled Document</title>
<script type="text/javascript" src="jquery-3.2.1.min.js"></script>
<style>
body {
    font-family:arial;
}
.block {
    background-color:#009688;
    width:235px;
    padding:20px;
    border:solid 1px #666;
}
.btn {
    width:50px;
    height:50px;
    font-size:25px;
    border:0px;
    margin:0px 5px 5px 0px;
}
.btn1 {
    background-color:#212121;
    color:#FFFFFF;
}
.btn2 {
    background-color:#616161;
    color:#FFFFFF;
}
.btnres {
    background-color:#64DD17;
}
.btn0 {
    width:110px;
    background-color:#212121;
    color:#FFFFFF;
}
.display {
    font-size:25px;
    font-weight:700;
    background-color:#80CBC4;
    color:#212121;
    border:0px;
    margin-bottom:5px;
    width:216px;
    padding:6px;
}
</style>
```



```

</head>

<body>
<div class="block">
    <div>
        <input type="text" class="display" id="display">
    </div>
    <div>
        <input type="button" class="btn btn1" onClick="set(this.value)"
value="7">
        <input type="button" class="btn btn1" onClick="set(this.value)"
value="8">
        <input type="button" class="btn btn1" onClick="set(this.value)"
value="9">
        <input type="button" class="btn btn2" onClick="minus()" value="-">
    </div>
    <div>
        <input type="button" class="btn btn1" onClick="set(this.value)"
value="4">
        <input type="button" class="btn btn1" onClick="set(this.value)"
value="5">
        <input type="button" class="btn btn1" onClick="set(this.value)"
value="6">
        <input type="button" class="btn btn2" onClick="kali()" value="x">
    </div>
    <div>
        <input type="button" class="btn btn1" onClick="set(this.value)"
value="1">
        <input type="button" class="btn btn1" onClick="set(this.value)"
value="2">
        <input type="button" class="btn btn1" onClick="set(this.value)"
value="3">
        <input type="button" class="btn btn2" onClick="bagi()" value="/">
    </div>
    <div>
        <input type="button" class="btn btn0" onClick="set(this.value)"
value="0">
        <input type="button" class="btn btnres" onClick="res()" value="=">
        <input type="button" class="btn btn2" onClick="plus()" value="+">
    </div>
</div>

<script type="text/javascript">
$(function() {

});

var inp1 = 0;
var inp2 = 0;
var operator = '';

function set(a)
{
    if(operator == 'res')
        $('#display').val(a);
    else

```

```

        $('#display').val($('#display').val() + a);
    }

function plus()
{
    operator = 'plus';
    inp1 = $('#display').val();
    $('#display').val('');
}
function minus()
{
    operator = 'minus';
    inp1 = $('#display').val();
    $('#display').val('');
}
function kali()
{
    operator = 'kali';
    inp1 = $('#display').val();
    $('#display').val('');
}
function bagi()
{
    operator = 'bagi';
    inp1 = $('#display').val();
    $('#display').val('');
}

function res()
{
    if(operator != '' && operator != 'res')
    {
        inp2 = $('#display').val();

        if(operator == 'plus')
            var result = parseInt(inp1) + parseInt(inp2);
        else if(operator == 'minus')
            var result = parseInt(inp1) - parseInt(inp2);
        else if(operator == 'bagi')
            var result = parseInt(inp1) / parseInt(inp2);
        else if(operator == 'kali')
            var result = parseInt(inp1) * parseInt(inp2);

        $('#display').val(result);
        operator = 'res';
    }
}
</script>
</body>
</html>

```

2. Soal nomor 2

```
<!doctype html>
<html>
<head>
<meta charset="utf-8">
<title>Untitled Document</title>
<script type="text/javascript" src="jquery-3.2.1.min.js"></script>
<style>
body {
    font-family:verdana;
}
label {
    color:#B81013;
    font-weight:bold;
}
form {
    border: solid 1px #262626;
    padding:20px;
    width:470px;
    background-color:#f5f5f5;
}
</style>
</head>

<body>

<form>
    <label>Nama : </label> <input type="text" name="nama" id="nama"><br><br>
    <label>NIM : &nbsp;  </label> <input type="text" name="nim"
id="nim"><br><br>
    <label>Kelas : </label> <input type="text" name="kelas"
id="kelas"><br><br>
    <label>Jenis Kelamin : </label> <input type="radio" name="jk"
value="Laki-Laki"> Laki-Laki &nbsp;  <input type="radio" name="jk"
value="Perempuan"> Perempuan<br><br>
    <button type="button" onClick="saving()">Simpan</button>
</form>
<br>
<table border="1" cellpadding="5">
    <thead>
        <tr>
            <th>Nama</th>
            <th>NIM</th>
            <th>Kelas</th>
            <th>Jenis Kelamin</th>
            <th>Action</th>
        </tr>
    </thead>
    <tbody>
        <tr>
            <td>Mystogan</td>
            <td>1103120243</td>
            <td>IF-40-03</td>
            <td>Laki-Laki</td>
            <td><input type="button" value="Hapus"></td>
        </tr>
    </tbody>
</table>
```

```

        </tr>
    </tbody>
</table>

<script type="text/javascript">
$(function() {
    $('body').on('click', '.hapus', function() {
        if(confirm('Apakah yakin akan menghapus baris ini ?'))
            $(this).parents("tr").remove();
    });
});

function saving()
{
    var html = '<tr><td>' + $('#nama').val() + '</td><td>' + $('#nim').val()
+ '</td><td>' + $('#kelas').val()
+ '</td><td>' + $('#input[name=jkl]:checked').val() + '</td><td><input type="button"
class="hapus" value="Hapus"></td></tr>';

    $('tbody').append(html);
}
</script>
</body>
</html>

```

3. Soal nomor 3 point a

```

<!doctype html>
<html>
<head>
<meta charset="utf-8">
<title>Untitled Document</title>
<script type="text/javascript" src="jquery-3.2.1.min.js"></script>
<style>
body {
    font-family:verdana;
}
div {
    display:none;
}
</style>
</head>

<body>
<input type="button" value="A">
<input type="button" onClick="display(this.value)" value="B">
<input type="button" onClick="display(this.value)" value="C">
<input type="button" onClick="display(this.value)" value="D">
<input type="button" onClick="display(this.value)" value="E">
<input type="button" onClick="display(this.value)" value="F">
<input type="button" onClick="display(this.value)" value="G">
<input type="button" onClick="display(this.value)" value="H">
<input type="button" onClick="display(this.value)" value="I">
<input type="button" onClick="display(this.value)" value="J">
<input type="button" onClick="display(this.value)" value="K">

```

```
<input type="button" onClick="display(this.value)" value="L">
<input type="button" onClick="display(this.value)" value="M">
<input type="button" onClick="display(this.value)" value="N">
<input type="button" onClick="display(this.value)" value="O">
<input type="button" onClick="display(this.value)" value="P">
<input type="button" onClick="display(this.value)" value="Q">
<input type="button" onClick="display(this.value)" value="R">
<input type="button" onClick="display(this.value)" value="S">
<input type="button" onClick="display(this.value)" value="T">
<input type="button" onClick="display(this.value)" value="U">
<input type="button" onClick="display(this.value)" value="V">
<input type="button" onClick="display(this.value)" value="W">
<input type="button" onClick="display(this.value)" value="X">
<input type="button" onClick="display(this.value)" value="Y">
<input type="button" onClick="display(this.value)" value="Z">
```

```
<br><br>
```

```
<div class="a">- ANGSA</div>
<div class="a">- ANJING</div>
<div class="a">- ANOA</div>
<div class="b">- BABI</div>
<div class="b">- BADAK</div>
<div class="b">- BAJING</div>
<div class="c">- CACING</div>
<div class="c">- CAMAR</div>
<div class="c">- CAPUNG</div>
<div class="d">- DARA</div>
<div class="d">- DOMBA</div>
<div class="d">- DUYUNG</div>
```

```
<script type="text/javascript">
$(function() {
    $('input[type=button]').click(function() {
        $('div').hide();
        $('div.'+$$(this).val().toLowerCase()).show();

        $('input[type=button]').removeAttr('style');

        $(this).css('background-color', 'red');
        $(this).css('border', 'solid 1px #262626');
        $(this).css('color', 'white');
        $(this).css('font-weight', 'bold');
    });
});
</script>
</body>
</html>
```

Soal nomor 3 point b

```
<!doctype html>
<html>
<head>
<meta charset="utf-8">
<title>Untitled Document</title>
<script type="text/javascript" src="jquery-3.2.1.min.js"></script>
<style>
body {
    font-family:verdana;
}
</style>
</head>

<body>
<input type="button" value="A">
<input type="button" onClick="display(this.value)" value="B">
<input type="button" onClick="display(this.value)" value="C">
<input type="button" onClick="display(this.value)" value="D">
<input type="button" onClick="display(this.value)" value="E">
<input type="button" onClick="display(this.value)" value="F">
<input type="button" onClick="display(this.value)" value="G">
<input type="button" onClick="display(this.value)" value="H">
<input type="button" onClick="display(this.value)" value="I">
<input type="button" onClick="display(this.value)" value="J">
<input type="button" onClick="display(this.value)" value="K">
<input type="button" onClick="display(this.value)" value="L">
<input type="button" onClick="display(this.value)" value="M">
<input type="button" onClick="display(this.value)" value="N">
<input type="button" onClick="display(this.value)" value="O">
<input type="button" onClick="display(this.value)" value="P">
<input type="button" onClick="display(this.value)" value="Q">
<input type="button" onClick="display(this.value)" value="R">
<input type="button" onClick="display(this.value)" value="S">
<input type="button" onClick="display(this.value)" value="T">
<input type="button" onClick="display(this.value)" value="U">
<input type="button" onClick="display(this.value)" value="V">
<input type="button" onClick="display(this.value)" value="W">
<input type="button" onClick="display(this.value)" value="X">
<input type="button" onClick="display(this.value)" value="Y">
<input type="button" onClick="display(this.value)" value="Z">

<br><br>
<div id="container"></div>

<script type="text/javascript">
$(function() {
    var hewan = {a:['ANGSA', 'ANJING', 'ANOA'], b:['BABI', 'BADAK',
'BAJING']}
    $('input[type=button]').click(function() {

        var initial = $(this).val().toLowerCase();
        var html = '';
        $.each(hewan[initial], function( key, value ) {
            html += "<div>- "+value+"</div>";
        });
    });
});
```

```

    });

    $('#container').html(html);

    $('input[type=button]').removeAttr('style');

    $(this).css('background-color', 'red');
    $(this).css('border', 'solid 1px #262626');
    $(this).css('color', 'white');
    $(this).css('font-weight', 'bold');
  });
});
</script>
</body>
</html>

```

Soal nomor 3 point c

```

<!doctype html>
<html>
<head>
<meta charset="utf-8">
<title>Untitled Document</title>
<script type="text/javascript" src="jquery-3.2.1.min.js"></script>
<style>
body {
    font-family:verdana;
}
</style>
</head>

<body>
<input type="button" value="A">
<input type="button" onClick="display(this.value)" value="B">
<input type="button" onClick="display(this.value)" value="C">
<input type="button" onClick="display(this.value)" value="D">
<input type="button" onClick="display(this.value)" value="E">
<input type="button" onClick="display(this.value)" value="F">
<input type="button" onClick="display(this.value)" value="G">
<input type="button" onClick="display(this.value)" value="H">
<input type="button" onClick="display(this.value)" value="I">
<input type="button" onClick="display(this.value)" value="J">
<input type="button" onClick="display(this.value)" value="K">
<input type="button" onClick="display(this.value)" value="L">
<input type="button" onClick="display(this.value)" value="M">
<input type="button" onClick="display(this.value)" value="N">
<input type="button" onClick="display(this.value)" value="O">
<input type="button" onClick="display(this.value)" value="P">
<input type="button" onClick="display(this.value)" value="Q">
<input type="button" onClick="display(this.value)" value="R">
<input type="button" onClick="display(this.value)" value="S">
<input type="button" onClick="display(this.value)" value="T">
<input type="button" onClick="display(this.value)" value="U">
<input type="button" onClick="display(this.value)" value="V">
<input type="button" onClick="display(this.value)" value="W">

```

```

<input type="button" onClick="display(this.value)" value="X">
<input type="button" onClick="display(this.value)" value="Y">
<input type="button" onClick="display(this.value)" value="Z">

<br><br>
<div id="container"></div>

<script type="text/javascript">
$(function() {
    $('input[type=button]').click(function() {
        var initial = $(this).val().toLowerCase();

        $.ajax({
            url:'hewan.json',
            dataType: 'json',
            success: function(hewan) {

                var html = '';
                $.each( hewan[initial], function( key, value ) {
                    html += "<div>- "+value+"</div>";
                });

                $('#container').html(html);

                $('input[type=button]').removeAttr('style');

                $(this).css('background-color', 'red');
                $(this).css('border', 'solid 1px #262626');
                $(this).css('color', 'white');
                $(this).css('font-weight', 'bold');
            }
        });
    });
});
</script>
</body>
</html>

```

File JSON

```

{"a":["ANGSA", "ANJING", "ANOA"], "b":["BABI", "BADAK", "BAJING"]}

```

4. Soal Nomor 4

```

<!doctype html>
<html>
<head>
<meta charset="utf-8">
<title>Untitled Document</title>
<script type="text/javascript" src="jquery-3.2.1.min.js"></script>
<style>
body {
    font-family:verdana;

```



```

}
</style>
</head>

<body>

<div style="display:block; height:250px; width:95%; border-right:solid 10px
red" id="way">

</div>

<div style="display:block">
    <button type="button" onClick="onex()">Maju 10 Pixel &nbsp;=></button>
    <button type="button" onClick="onestep()">Maju 1 Langkah &nbsp;=></button>
    <button type="button" onClick="twostep()">Maju 2 Langkah &nbsp;=></button>
    &nbsp; &nbsp; &nbsp; &nbsp;
    <button type="button" onClick="m_onex()"><== &nbsp; &nbsp; Mundur 10
Pixel</button>
    <button type="button" onClick="m_onestep()"><== &nbsp; &nbsp; Mundur 1
Langkah</button>
    <button type="button" onClick="m_twostep()"><== &nbsp; &nbsp; Mundur 2
Langkah</button>
</div>

<script type="text/javascript">
$(function() {
    $('body').on('click', '.hapus', function() {
        $(this).parents("tr").remove();
    });
});

var tandamerah = $('#way').width() - 200;

function onex()
{
    var car = $('#car').position();
    var left = car.left + 10;

    if(left <= tandamerah)
        $('#car').css('left', left);
}
function onestep()
{
    var car = $('#car').position();
    var left = car.left + $('#car').width();

    if(left <= tandamerah)
        $('#car').css('left', left);
}
function twostep()
{
    var car = $('#car').position();
    var left = car.left + (2 * $('#car').width());

    if(left <= tandamerah)
        $('#car').css('left', left);
}

```

```
function m_onepx()
{
    var car = $('#car').position();
    var left = car.left - 10;

    if(left >= 0)
        $('#car').css('left', left);
}
function m_onestep()
{
    var car = $('#car').position();
    var left = car.left - $('#car').width();

    if(left >= 0)
        $('#car').css('left', left);
}
function m_twostep()
{
    var car = $('#car').position();
    var left = car.left - (2 * $('#car').width());

    if(left >= 0)
        $('#car').css('left', left);
}
</script>
</body>
</html>
```

JAWABAN TEST AKHIR

1. Jawaban nomor 1

```
$(function() {  
    var msg = "Dota 2 Top 10 Carry Heroes in 2016: \n\n";  
    var no = 1;  
    $('ul li').each(function(i) {  
        msg += no + ". " + $(this).html() + "\n";  
        no++;  
    });  
    alert(msg);  
});
```

2. Jawaban nomor 2 point a

```
$(function() {  
    alert( $('p').html() );  
});
```

Jawaban nomor 2 point b

```
$(function() {  
    alert( $('#id_paragraf').html() );  
});
```

Jawaban nomor 2 point c

```
$(function() {  
    alert( $('.class-paragraf').html() );  
});
```

3. Jawaban nomor 3 point a

```
$(function() {  
    $("table tr:odd").css('background-color', 'yellow');  
});
```

Jawaban nomor 3 point b

```
$(function() {  
    $("table tr:nth-child(3), table tr:nth-child(4)").addClass('blue');  
});
```