

LAB FOR SESSION 13

JavaScript

A. OBJECTIVES

- Creating and using function and object.
- Check validity on the form.

B. STEP BY STEP EXERCISES

1. Display date and time in Vietnamese

```

1 <!doctype html>
2 <html>
3 <head>
4 <meta charset="utf-8">
5 <title>Display date and time</title>
6 <style type="text/css"> input {width: 400px;} </style>
7 <script language="javascript">
8   var timer = null;
9   function play() {
10     var daysOfWeek = ["Chủ Nhật", "Thứ hai", "Thứ ba", "Thứ tư",
11                       "Thứ năm", "Thứ sáu", "Thứ bảy"];
12     var today = new Date();
13     document.f.d.value = "Hôm nay là: " + daysOfWeek[today.getDay()] +
14                          ", ngày " + today.getDate() +
15                          ", tháng " + (today.getMonth() + 1) +
16                          ", năm " + today.getFullYear();
17     h = today.getHours();
18     document.f.t.value = "Bây giờ là: " + (h>12? h-12: h) +
19                          ":" + today.getMinutes() +
20                          ":" + today.getSeconds() +
21                          " " + (h>11? "PM": "AM");
22     timer = setTimeout("play()", 1000);
23   }
24   function stop() { clearTimeout(timer); }
25 </script>
26 </head>
27 <body onload="play()">
28 <center><form name="f">
29   <input name="d" /><br/><input name="t" /><br/>
30   <button type="button" onclick="play()">Chạy đồng hồ</button>
31   <button type="button" onclick="stop()">Ngừng đồng hồ</button>
32 </form></center>
33 </body>
34 </html>

```

Hôm nay là: Chủ Nhật, ngày 16, tháng 2, năm 2014

Bây giờ là: 11:53:6 PM

Chạy đồng hồ

Ngừng đồng hồ

Figure 13.1

2. Form validation

REGISTER NEW ACCOUNT

Username

Password

Confirm password

Gender

☒ Male
 ☐ Female

Phone

Email

Favourite

☒ Music
 ☒ Reading

Picture

Choose File

No file chosen

Description

Education level

Aptech

Language

Vietnamese

English

French

Japanese

Register

Reset

Figure 13.2

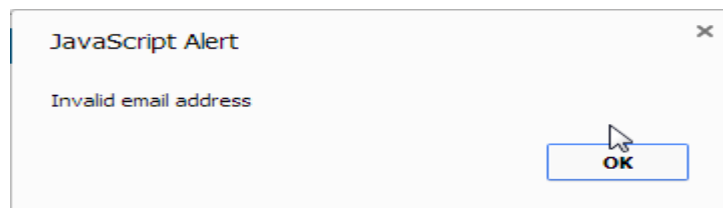


Figure 13.3

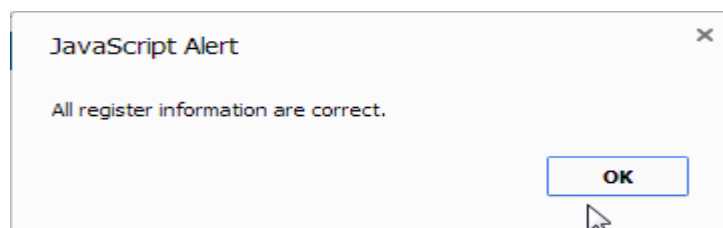


Figure 13.4

- **Hint:** *FormValid* function

```

function formValid() {
    f = document.frmRegister;
    var phone_pattern = /^(\\(0\\d{1,3}\\)\\d{7})|(0\\d{9,10})$)/;
    var email_pattern = /^[a-zA-Z]\\w*(\\.\\w+)*@\\w+(\\.\\w{2,3})+$/;
    if(f.txtUsername.value=="") {
        alert("Username can't be empty");
        f.txtUsername.focus();
        return false;
    }
    if(f.txtPassword1.value.length < 6){
        alert("Password length must be from 6 to 20 characters");
        f.txtPassword1.focus();
        return false;
    }
    if(f.txtPassword1.value != f.txtPassword2.value){
        alert("Password doesn't match");
        f.txtPassword2.focus();
        return false;
    }
    if(phone_pattern.test(f.txtPhone.value)==false){
        alert("Invalid phone number");
        f.txtPhone.focus();
        return false;
    }
    if(email_pattern.test(f.txtEmail.value)==false){
        alert("Invalid email address");
        f.txtEmail.focus();
        return false;
    }
    if(f.chkMusic.checked==false && f.chkReading.checked==false){
        alert("You must select at least one favourite");
        f.chkMusic.focus();
        return false;
    }
    if(f.filPicture.value=="") {
        alert("You must select your picture");
        f.filPicture.focus();
        return false;
    }
    if(f.txtDescription.value==""){
        alert("You must enter description");
        f.txtDescription.focus();
        return false;
    }
    alert("All register information are correct.");
    return true;
}

```

- *Using onsubmit event*

```
<form name="frmRegister" method="get" onsubmit="return formValid();">
```