

**INFORMATION COMMUNICATION TECHNOLOGY**

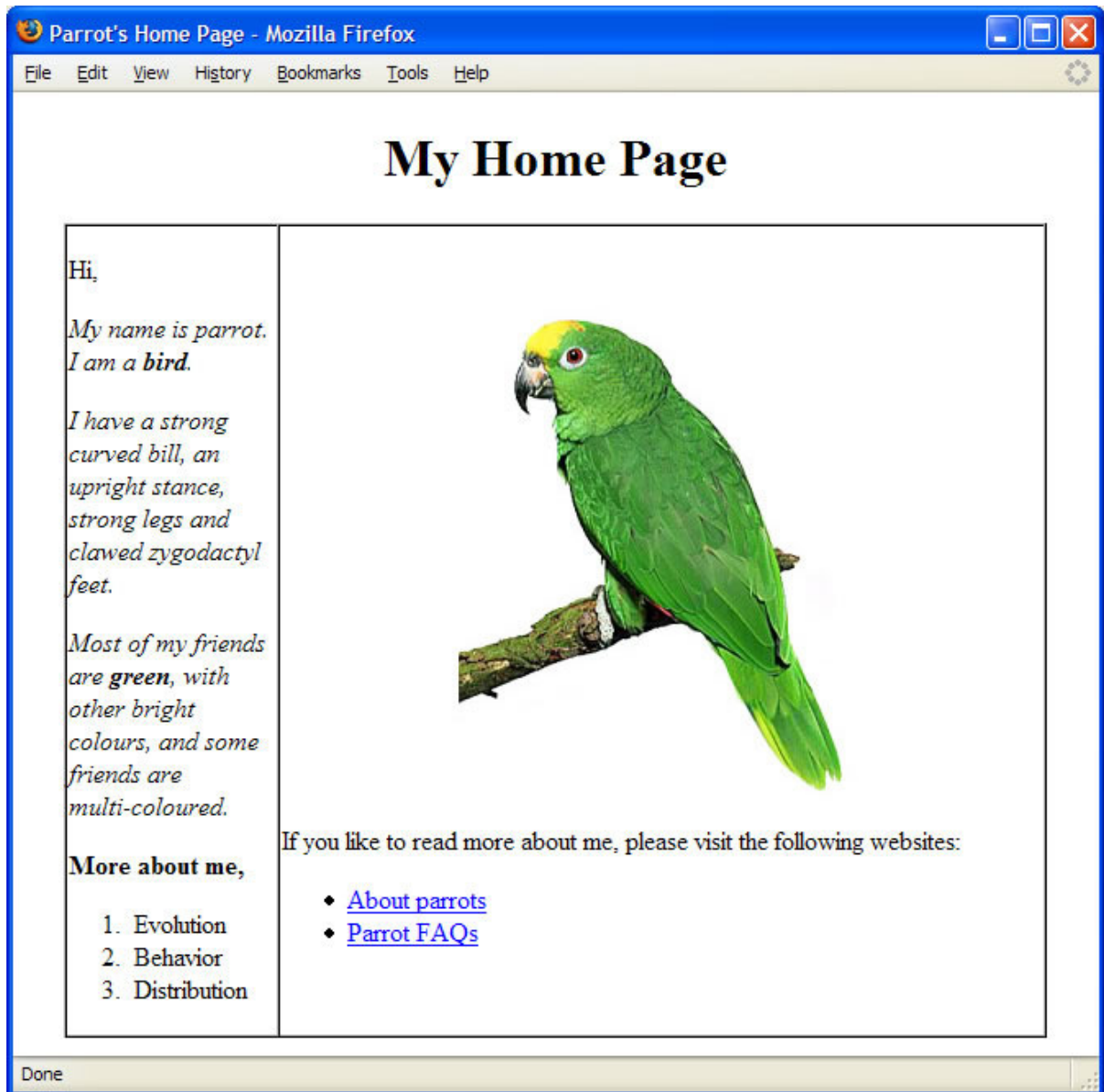
**G.C.E. Advanced Level 2012**

**Revision – Tutorial 31**

**Duration: 60 minutes**

*Answer all questions*

1. Suppose you want to create a web page as shown below to be rendered in a web browser:



(a) Write an HTML coding for the page.

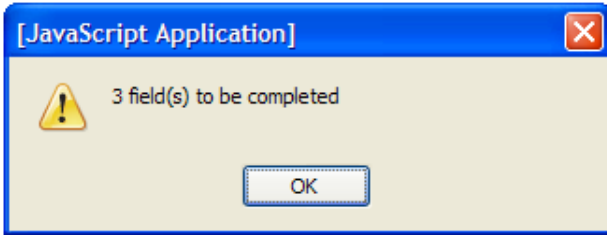
2. The following shows an HTML form and a message displayed when the submit button is pressed.

**Project Title :**

**Your Name :**

**Your Reg. No.:**

**Your Email:**



When the user clicks the submit button, the function `validateOnSubmit()` is called. The message mentions number of empty fields to be completed if at least one field is empty, otherwise displays a message saying "Submitting the form".

- (a) Complete the following JavaScript code to get the above functionality.

```
<SCRIPT
```

```
// Check for empty
```

```
function validateField(valfield) {
```

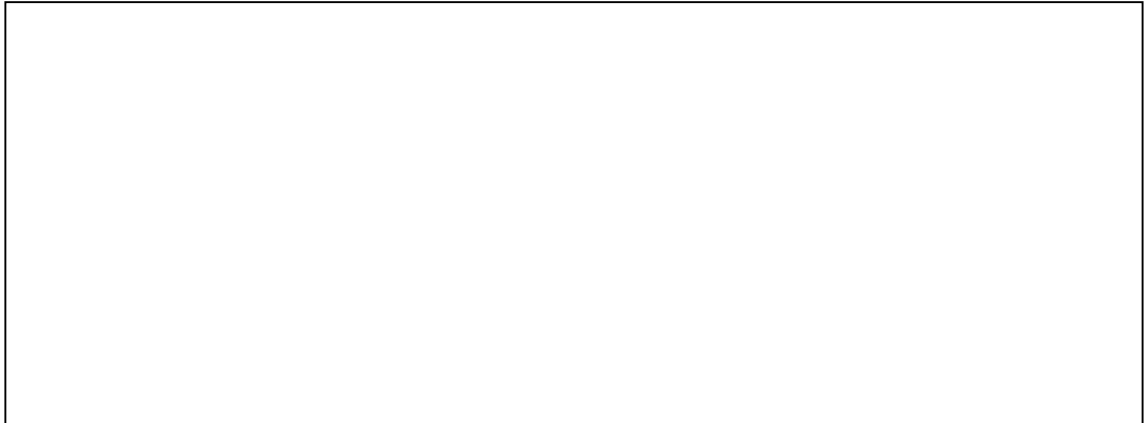
```
}
```

```
function validateOnSubmit() {
```

```
    var elem;
```

```
    var errs=0;
```

```
// Check each field  
  
if (!validateField(document.forms.details.title)) errs += 1;  
if (!validateField(document.forms.details.name)) errs += 1;  
if (!validateField(document.forms.details.regno)) errs += 1;  
if (!validateField(document.forms.details.email)) errs += 1;  
  
// Displaying the appropriate message
```



```
return (errs==0);  
  
};  
  
</SCRIPT>
```

(b) Consider the following HTML code.

```
<html>  
<head>  
<title>CSS Test</title>  
</head>  
<body>  
<h1>Heading 1 text is blue centered in arial</h1>  
<p>This is a paragraph in green italic text </p>  
<h3>Heading 2 text is red italic in courier</h3>  
<p>This is another paragraph in green italic text</p>  
</body>  
</html>
```

(c) Define styles for the following requirements in the head section of the above document (give the code).

- Heading 1 style with
  - Arial font
  - Center alignment
  - Blue colour
- Heading 3 style with
  - Courier font
  - Italic font style
  - Red colour
- Paragraph style with
  - Italic font style
  - Green colour

(d) Write an the HTML coding for the following form.

**Your Name:**

**Registration No :**

**Comments:**

3.

- (a) Using a single sentence, define the term 'stakeholder' in the context of a software system.
- (b) Consider an auction website: <http://www.bitauctions.com>, which facilitates buying and selling rare books which are not frequently available in present day bookshops. Identify 2 stakeholders of the system from the facts given.
- (c) Draw a context level DFD to illustrate the information flow between the stakeholders identified in part (b) above and the website. Assume that they have to register before using the system which involves paying a fee online. All users will have to enter login details (which they will receive offline) to use the system thereafter. When book particulars are given by a seller, the potential buyers can start bidding for it and the highest offer will be accepted and be notified.
- (d) What are the 3 most important non-functional requirements <http://www.bitauctions.com> should posses to be successful in business? Justify your answers.
- (e) Can a DFD be used to document the non-functional requirements you identified in part (d) above? Justify your answer.
- (f) Based on the given facts, identify the 3 main sub-systems which make up <http://www.bitauctions.com>.

\*\*\*\*\* END \*\*\*\*\*