COM741 Web Applications Development

Practical 3

This practical will be completed via the Practical-3 project in **replit**
`https://replit.com/team/COM741-2021-22` .

To run the project and test each question, click the run button, then in the browser window that opens up within repl copy the url to a new browser window and append the name of the html page to be viewed e.g. /q1.html

HTML

1. Complete `q1.html` by adding

   - A Heading level 2 in bold containing text "Question 1"
   - A paragraph containing text below with formatting shown

     "This is question 1 which **demonstrates** basic *formatting*"

2. Complete `q2.html` by adding

   - A Numbered list (`<ol> <li>`) containing the 5 days of the working week Monday-Friday
   - A description list (`<dl> <dd> and <dt>`) containing the modules you have completed this year. Use the module code as the title and module description as the text. You should bold the titles and emphasise the text.

3. Complete `q3.html` by adding a table containing the following header, body and footer data

Code	Description.	Result
COM136	Programming 1	67
COM139	Programming 2	61
COM451	Maths 1	69
COM328	Algorithms	71
	AVERAGE RESULT	67

4. Amend the existing `index.html` file, setting the document title to 'Practical 3' and add a level 2 heading containing text "Practical 3 Questions". Then add HTML anchor tag links to each of the pages used to answer questions 1-3 inside an unordered list. Ensure all questions completed from this point on also have a link in this page.

CSS

1. Complete `q5.html` by amending the `<style>` section as follows

   - Style the `<body>` tag to (i) set the background colour to whitesmoke, (ii.) the body font-family and size to Verdana 2em, (iii.) with a margin around the body of 2em.
   - Create a custom style named `custom` setting font, font size and colour to values of your choice, then apply the style to the `<h3>` tag.

   OPTIONAL

   - Create a custom style called `anchor` that when applied to the `<a>` tag will make it look like a button with a hover style. The styles should include (i.) background color of lightgreen, (ii.) text color of black, (iii.) border radius of 6px, (iv.) border style of none, (v.) font size of 1em, (vi.) padding of 0.75em, (vii.) no outline.
   - Add an anchor hover pseudo style `hover:anchor { ...}` that will automatically change the button style when it is hovered over. The styles should include (i.) change cursor to a pointer style, (ii.) set background color to green, (iii.) set text color white.

   Feel free to try out your own designs for the anchor style

Bootstrap

1. Complete `q6.html` by

   - Copy the table created in q3 and apply appropriate bootstrap table styling. Try out the various table styles provided.
   - Add a link to the page which links to the index.html page. Style the link using a suitable bootstrap button style e.g. "secondary"

2. Complete `q7.html` by creating a form (applying relevant bootstrap styling) to collect data to create a new student (input field types are text for name and course, number for age, email for the email address and url for the photo Url). Add a Save button (use primary style) and a link that takes you back to the index page (use a button style of secondary)

```
Name          _____
Course        _____
Age           _____
Email         _____
PhotoUrl      _____


Save   Cancel
```

3. Complete `q8.html` by creating a bootstrap **grid layout** containing

   - A level 2 heading containing "Student Details". Add margin top and bottom to leave some space above and below the heading. Try different bootstrap margins and see which looks best (e.g. mt-1 to mt-5 or mb-1 to mb-5)
   - A row containing 2 columns with width 2/3 and 1/3 respectively. Remember a row has 12 columns so setting first column to col-8 and the second to col-4 would be appropriate.
   - In the first column create a **description list** using (`<dl> <dd> and <dt>`) tags to include the following details

```
Name     Homer Simpson
Course   Computing
Age      45
Grade    67
```

   - In the second column add an image tag with a class style of `img-fluid` and the following url
     `https://www.uos.ac.uk/sites/www.uos.ac.uk/files/student-3500990_1920.jpg`
   - Create a second row (no columns needed) and add a link (styled as a primary button) that links back to the index page.

   Resize the page and check that it displays a responsive layout with the elements automatically adjusting to fit the viewport.

Summary

If you have additional time then create another page q9.html and try out other HTML/CSS/Bootstrap examples. You will find lots of material on W3Schools (https:/www.w3schools.com)

Note that question solutions 1-8 when viewed in the browser each question should look something like those contained in the image practical_3.jpg shown below

Practical 4

Place links to each question page below

Question 1

This is question 1 which **demonstrates** basic *formatting*

Question 2

1. Monday
2. Tuesday
3. Wednesday
4. Thursday
5. Friday

COM741
  Web Applications Development
COMXXX
  Title goes here

Question 3

Module Code	Description	Result
COM136	Programming 1	67
COM139	Programming II	61
COM451	Maths for Programmers	69
COM328	Algortithms & Data Structures	61
	AVERAGE RESULT	**67**

Practical 4

- Question 1 - Basic HTML
- Question 2 - HTML Lists
- Question 3 - HTML Table
- Question 5 - CSS Styling
- Question 6 - Bootstrap Table
- Question 7 - Bootstrap Form
- Question 8 - Bootstrap Layout

Question 5

Greetings

Hello, Ciao, Bonjour, Hallo

Index

Question 6

Module Code	Description	Result
COM136	Programming 1	67
COM139	Programming II	61
COM451	Maths for Programmers	69
COM328	Algortithms & Data Structures	61
	AVERAGE RESULT	**67**

Home

Question 7

Name

Course

Age

Email

Create Cancel

Student Details

Name
Homer Simpson

Course
Computing

Age
45

Grade
56

Home