

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS  
Cambridge International Diploma in ICT  
Advanced Level

**WEBSITE PROGRAMMING**

**5206/A**

Optional Module: Practical Assessment

2005

No Additional Materials are required

**1 hour  
and 15 minutes reading time**

**READ THESE INSTRUCTIONS FIRST**

Candidates are permitted **15 minutes** reading time before attempting the paper.

Make sure that your name, centre number and candidate number are shown on each printout that you are asked to produce.

Carry out **every** instruction in each task.

Tasks are numbered on the left hand side of the page, so that you can see what to do, step by step. On the right hand side of the page for each task, you will find a box which you can tick (✓) when you have completed the task; this checklist will help you to track your progress through the assessment.

Before each printout you should proof-read the document to make sure that you have followed all instructions correctly.

At the end of the assignment put **all** your printouts into the Assessment Record Folder.

This document consists of **4** printed pages.

IB05 01\_5206\_A/2RP  
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International Examinations

**[Turn over**

You work for the Transport Department of the City of Tawara Beach and you are going to create a web form which can be used by residents to register for a reduction in the congestion charge they have to pay. You will also design web pages which can be used to report from the database created by this web form.

- 1 Download the file **AWPA5CAR.CSV** from <http://www.hothouse-design.co.uk/2005webproga> to your own work area.
- 2 Create a table in a database suitable for use with your web server and import the file **AWPA5CAR.CSV** into this table. The fields are *registration*, *email*, *enginesize*, *LPG* and *area*  3.1.1
- 3 On a new web page create a form which looks like the diagram below, with:  1.1.1
- **Car registration** and **email address** as simple text input boxes 1.1.2
  - **Engine Size** choice as option (radio) buttons 1.1.3
  - **Tick this box if your car runs on LPG** as a check box 1.1.4
  - **Area of city** as a list box 1.1.4
  - **Save** as a submit button 1.1.5

The form action should open a page or script which can validate and save the data to a database.

**City of Tawara Beach Transport Department**

Please fill in the information below:

Car registration:

email address:

Engine Size:    Less than 1000cc    Over 1000cc    Tick this box if your car runs on LPG   

                                    

Area of city:    

Blackall
Dirranbandi
Tambo
Yalleroi

- 4 Create a script which processes the data. It should make the following checks:  2.1.1  
*registration* starts with letter A, M or P 2.1.2  
 The second, third and fourth characters of *registration* are numeric. 2.3.1  
 If either of these checks fails, the script should return a page to the browser which shows the data entered and the error message **Data is not valid**
- 5 If there are no errors, then write code which will store the data as a new record in the database you created.  3.1.2  
 In the *engine* field store **1** if less than 1000cc is chosen or **2** if over 1000cc is chosen.  
 In the *LPG* field, store **yes** if the box is checked or **no** if it is not checked.  
 In the *area* field, store the area as the full string.  
 In the *registration* and *email* fields, store the text as entered.  
 Write a page for the browser which shows the data and says **Your data has been saved**
- 6 Use your web form to enter data for the following request:  3.1.2  
 4.1.1  
 Registration: **M123BC**  
 email: **ericjones82@mailbox.com.ta**  
 Engine Size: **less than 1000cc**  
 LPG: **Yes**  
 Area: **Blackall**  
 Click *Save* and print the page which appears.
- 7 Use your web form to enter data for the following request:  3.1.2  
 4.1.1  
 Registration: **MPQ123**  
 email: **david.angel@postbox.ta**  
 Engine Size: **less than 1000cc**  
 LPG: **Yes**  
 Area: **Tambo**  
 Click *Save* and print the page which appears.
- 8 Create a web page which selects all data for vehicles which use **LPG** and have an engine size less than 1000cc. For each vehicle it should show the *Registration*, *email*, *enginesize* and *area*  2.2.1  
 2.2.2  
 2.3.2  
 Open this page and print it.
- 9 Print out the page created at step 3 showing the HTML.  4.1.1

- 10 Print out the page(s), scripts or evidence of other methods which you used in order to validate and save the data showing the HTML and code.  <sup>✓</sup> 4.1.2

On your printout highlight those portions of the code which:

- check that the *registration* starts with A, M or P
- check that the *registration* contains digits at positions 2 and 3
- write data to the database
- write the confirmation page
- write the error page.

*(This highlighting may be done after the 1 hour allowed for the paper.)*

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**[Turn over**

You work for the transport department in the City of Tawara Beach. The city is trying to encourage car drivers to share their cars with other commuters. You are going to create a web form which will be used as the input for a database of people who will share rides. You will also design web pages which can be used to report results from this search.

- 1 Download the file **AWPB5RID.CSV** from <http://www.hothouse-design.co.uk/2005webprogb> to your own work area.
- 2 Create a table in a database suitable for use with your web server and import the file **AWPB5RID.CSV** into this table. The fields are *Name, phone, ride, charging* and *location*  3.1.1
- 3 On a new web page create a form which looks like the diagram below, with:  1.1.1
- **Name** and **Contact phone** as simple text input boxes 1.1.2
  - **Ride** choice as option (radio) buttons 1.1.3
  - **Charging?** as a check box 1.1.4
  - **Location** as a list box 1.1.4
  - **Save** as a submit button 1.1.5

The form action should open a page or script which can validate and save the data to a database.

**Tawara Beach Transport – Ride Sharing**

If you can either offer a lift or want a lift, then complete the form

Name:

Contact phone number (e.g. (912) 134 8817 – please include the area code and spaces):

Are you:    Offering a ride        Wanting a ride        Charging?   

Location    

Townsville
Mackay
Rockhampton
Bundaberg

- 4 Create a script which processes the data. It should make the following checks:  2.1.1  
*phone* is 14 characters long and has brackets at position 1 and 5 2.1.2  
 If any of these checks fails, the script should return a page to the browser 2.3.1  
 which shows the data entered and the error message **Data is not valid**
- 5 If there are no errors, then write code which will store the data as a new record in the database you created.  3.1.2
- In the *ride* field, store **0** if offering is chosen and **1** if wanting is chosen.  
 In the *charging* field, store **yes** if the box is checked or **no** if it is not checked.  
 In the *location* field, store the location name as the full string (e.g. Mackay).  
 In the *name* and *phone* fields, store the text as entered.
- Write a page for the browser which shows the data and says **Your data has been saved.**
- 6 Use your web form to enter data for the following person:  3.1.2  
 4.1.1
- Name: **Johnny Hall**  
 Phone: **(187) 219 8876**  
 Ride: **Offering**  
 Charging: **No**  
 Location: **Mackay**
- Click *Save* and print the page which appears.
- 7 Use your web form to enter data for the following person:  3.1.2  
 4.1.1
- Name: **Blaine Harris**  
 Phone: **(50) 987 1342**  
 Ride: **Offering**  
 Charging: **No**  
 Location: **Bundaberg**
- Click *Save* and print the page which appears.
- 8 Create a web page which selects all people offering a ride and not charging.  2.2.1  
 For each person show the *Name*, *Phone* and *Location*. Open this page and 2.2.2  
 print it. 2.3.2
- 9 Print out the page created at step 3 showing the HTML.  4.1.1

- 10 Print out the page(s), scripts or evidence of other methods which you used in order to validate and save the data showing the HTML and code.  <sup>✓</sup> 4.1.2

On your printout highlight those portions of the code which:

- check the length of *phone*
- check *phone* has a bracket at positions 1 and 5
- write data to the database
- write the confirmation page
- write the error page.

*(This highlighting may be done after the 1 hour allowed for the paper.)*

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