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TMA 01

> This tutor-marked assignment (**TM111 TMA 01**) must be submitted by 12 noon (UK local time) on **19 November 2020**.

This module requires all assignments to be submitted electronically. To submit an assignment, please follow the link(s) from your StudentHome page to the online TMA/EMA service.

If you foresee any difficulty with submitting your assignment on time, you should contact your tutor well in advance of the cut-off date.

Important – help with assignment questions

You should read the *TM111 Assessment Guide* in the Assessment section of the TM111 website before answering the questions here.

All written answers must be submitted in a word-processor document compatible with Microsoft Word, that is, with one of the following file extensions: .doc, .docx or .rtf. See the section on 'What to submit for TMAs' in the *TM111 Assessment Guide*.

If you need further guidance on any assignment questions, please ask your tutor, who will be happy to help.

You must provide a **word count** for each question or question part where a limit is specified.

Question 1 (10 marks)

a. In Part 1 and Part 2 of Block 1, we recommended that you take notes. Write a few sentences describing how you take notes on TM111, including how you organise and store them.

   The maximum word limit for Question 1(a) is 70 words.

   (5 marks)

b. In Activity 2.6 of Part 2, you were asked to post an image of the computer that you use for your TM111 studies, or of one that you would like to use for your TM111 studies, to OpenStudio. You were also encouraged to briefly comment on the image.

   Copy the link to the slot containing your image in OpenStudio into your TMA document.

(5 marks)

Question 2 (20 marks)

In Part 3 you used Audacity to produce audio files. Your main task for Question 2 is to produce a 30-second MP3 audio file in Audacity. Use the following steps to create your submission:

a. The importance of good academic practice is explained in Part 1 section 1.3.5 and, as part of the online activities for Week 1, you explored library resources on referencing and plagiarism (links located just below Part 1 Activity 1.12).

    Using your own words, write a short script of around 50 words, briefly explaining what is understood by the term 'good academic practice' and why it is not acceptable to copy large parts from other websites or other sources into your assignment work. **Hint:** think about how you would explain this to a prospective TM111 student.

    Copy your script into your TMA document.

    The maximum word limit for Question 2(a) is 60 words.

    (5 marks)

b. Using Audacity, record your script being read aloud by you or someone else if you prefer.

    The reader should try to speak clearly and the recording should last only about 20 seconds. You may like to do a timed practice and adjust your script if necessary.

    (5 marks)

c. In the same Audacity file, add a 30-second section of recorded music which complements your voice recording as a separate track. You may take this from the TM111 audio resources provided on the online activities page for Week 3 of the study planner, or you may use recorded music from another source.

    Move your voice recording so that it starts 5 seconds after the music starts.

    (5 marks)

d. Create an envelope in the music so that the volume of the music is reduced during the voice track. (You carried out a similar activity in Activity 3.16 of Part 3).

    Make a screenshot of the Audacity window showing the envelope and insert it into your TMA document. Save your audio file as an MP3 file.

    (5 marks)

What you should submit for Question 2

Make sure your TMA document includes a copy of the script you used.

Insert a screenshot of the envelope for part (d) into your TMA document. Include the MP3 version of your audio file in your TMA zip folder.

Question 3 (30 marks)

This question is based on your work for Part 4.

Your local sports centre, the Marathon Centre, offers a range of classes at different times in the week. The classes are increasing in popularity and the Marathon centre is considering offering a wider range of classes.

The Marathon centre maintains a database of customers and their bookings. The computer system is old and the database has not been changed since it was first designed as a flat database. The centre is now planning to upgrade its computer system and is looking at how the database might be modernised at the same time.

Here is a section of the current database showing some of the customers and their bookings in the last year. Note that both the Yoga and the Badminton classes are held at two different time slots during the week.

Table 1

Surname	Firstname	Sport_1	Day&time	Sport_2	Day&time
Loveridge	Roshni	Karate	Mon AM		
Childs	Alan	Badminton	Tue PM	Yoga	Fri PM
Roden	Peter	Badminton	Wed AM		
Jones	Mary	Yoga	Tue AM	Yoga	Fri PM
Tily	Ruth	Spinning	Thu PM		
Tily	Ollie	Spinning	Thu PM	Badminton	Tue PM
Sicot	Dominique	Karate	Mon AM		

a. Identify two entities in Table 1 for which information can be stored. Briefly explain why these two items make suitable entities.

   The maximum word limit for Question 3(a) is 60 words.

(6 marks)

b.   Create an entity table for each of these entities, including relevant data taken from Table 1 for each entity. Ensure that you name each entity table and name every column in each table.

If you added any columns to your entity tables that were not present in Table 1, explain *why* you did this.

The maximum word limit for Question 3(b) is 120 words.

(10 marks)

c.   Create a joining table that lists each relationship between the two entities that you have identified.

(4 marks)

d.   Flat databases such as that shown in Table 1 have their limitations. Explain two reasons why a flat database is less effective than a relational database. Use two examples from Table 1 to illustrate your explanation.

The maximum word limit for Question 3(d) is 150 words.

(10 marks)

Question 4 (20 marks)

In Part 5, you developed web pages using Open Sites. Your task for this question is to produce an HTML page that explains how an image may be represented in a digital form using pixels and binary words.

The audience for the web page are prospective TM111 students (so imagine yourself as you were before the module started).

You should give your site the following name: **MyPI-TMA01**, where 'MyPI' is your personal identifier number. For example, if your PI is A1234567, your site should be named A1234567-TMA01. Alternatively, you may use your OUCU instead of your PI.

Your completed web page should include the following elements:

a.   Your **written explanation** of how an image may be represented in a digital form. You should draw on the material on pixels and binary words in Part 3 for your explanation.

The maximum word limit for Question 4(a) is 150 words.

(8 marks)

b.   One still **image**, which supports your explanation. You may use an image from either the OpenStudio media database or take one from the Britannica ImageQuest database. Alternatively, you may use an image of

your own or one from the web that is copyright-free.

(5 marks)

c. A variety of HTML styles to make an attractive web page.

(4 marks)

d. Three further marks are for:

   1. including the title of the page (placed at the top of the page) and your name (placed under the title)
   2. an acknowledgement or reference for the image you have used (this should be placed at the bottom of the page below the written explanation)
   3. including a link to your Open Sites web page in your TMA document.

(3 marks)

What you should submit for Question 4

Copy and paste your written explanation for representing an image using pixels and binary words into your TMA document.

Take a screenshot of your web page and insert it into your TMA document. The screenshot should clearly show all the web page elements: the page title, your name, the written explanation, the image and the acknowledgment.

Copy the link to your Open Sites web page and insert it into your TMA document.

Notes

Do not spend time adding additional features to your web page; these will not gain you extra marks.

Make sure you do not infringe on any copyrights.

Use 'Open Sites Help' if you get into difficulties. You can also post questions on the TechHelp forum.

You should not make any changes to your web page after the cut-off date; doing so will result in a penalty being applied.

Your tutor will not be able to mark your web page unless you include a screenshot of it and the web link for the page in your TMA document.

Question 5 (20 marks)

This question assesses your work for Part 6.

a. *Imagine the following scenario:*

You are a member of a community group that visits people with visual impairments to support them with a variety of tasks. Some people want help in reading their mail, some want to make use of online services, while others simply want someone to talk to over a cup of tea. The number of volunteers has been growing and your group wants to advertise its work more widely in order to reach those who need support. You have discovered a funding body that gives out grants for website support for organisations like yours, and your group wants to apply for funding to develop a website.

At one of the website planning meetings it is clear that there are many ideas for the type of things that the volunteers think will be helpful for the users. There are also plenty of ideas on how to make the website a lively and engaging place with fun colour schemes and animated images.

You notice that there are two special criteria to qualify for the funding: the website should **follow a user centred design approach** and that **accessibility is expected to be an important feature**. The members of the group don't understand what to make of these criteria and they turn to you for help. You agree to prepare a short presentation for the next meeting.

In your own words and using no more than 300 words write a short report:

  i. to explain what is meant by a *user centred approach*;
  ii. to provide one example of activities members of the group can undertake to help them follow a user centred approach for the design of the website;
  iii. to explain what is meant by *accessibility*;
  iv. to provide an example of how you can overcome an accessibility issue for visually impaired users of the new website under development. You should refer to the established principles for accessibility discussed in section 6.5.2. *(Note: you only need to provide one example, and how it can be overcome with one of the principles)*.

  (10 marks)

b. This question is based on work you have already completed in Section 6.6 Employability, which is online.

  In Activity 6.20, you completed your 'Personal development plan (PDP) self-evaluation'.

  Include a copy of your completed PDP self-evaluation form in your TMA 01 zip folder.

  (10 marks)

What to include in your zip folder for TMA 01

The eTMA system will accept only one file so you must compress all your files into one .zip file. For guidance, see the section on Compressing files in the TM111 Assessment guide.

1. Your TMA in either .doc, .docx or .rtf format.

2. The MP3 audio file you produced in Question 2

3. Your completed PDP self-evaluation form.

Compress all the files into one .zip file and submit it through the eTMA system. Please note that only files with .zip extensions are acceptable.

Notes

If you're using the PDF version of this TMA, please remember that the formatting is very basic. As a result, you will need to use the online version to see formatting more clearly and to access any links and image descriptions. For further information about policy, procedure and general submission of assignments, please refer to the Assessment Handbook, which can also be accessed via your StudentHome page.