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Cambridge Assessment International Education

Cambridge International AS & A Level

INFORMATION TECHNOLOGY **9626/04**

Paper 4 Advanced Practical **October/November 2025**

2 hours 30 minutes

You will need: Candidate source files (listed on page 2)

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INSTRUCTIONS

- Carry out every instruction in each task.
- Save your work using the file names given in the task as and when instructed.
- You must **not** have access to either the internet or any email system during this examination.
- You must save your work in the correct file format as stated in the tasks. If work is saved in an incorrect file format, you will **not** receive marks for that task.

INFORMATION

- The total mark for this paper is 90.
- The number of marks for each question or part question is shown in brackets [ ].

This document has **8** pages.

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You have been supplied with the following source files:

BookingsArrayTask.html
WeatherData.csv

Create a folder called **Examination**.
You must save all your work in this folder.

Copy these files into this folder.
Do **not** delete the source files when submitting your work.
Do **not** tidy the folder by deleting files created at any stage of attempting the tasks.

You must use the most efficient methods to solve each task. All work produced must be of a professional standard and contain your candidate details.

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Task 1

Open and examine the **WeatherData.csv** file in a spreadsheet application.

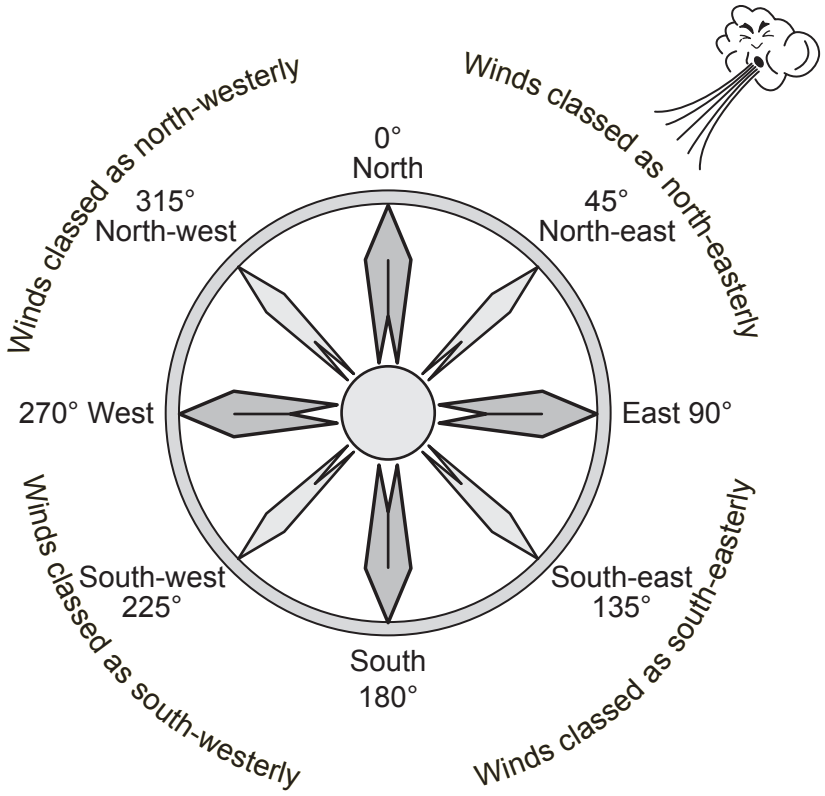
Hide all the columns except: *Date*, *Direction of highest wind gust* and *Main wind direction* columns.

Save the data as a spreadsheet named **WindAnalysis_** followed by your centre number_candidate number. For example, WindAnalysis_ZZ999_9999

The wind direction is given as the angle the wind was coming from. This image shows what winds from any direction are called. For example, a wind direction of 40° would be called north-easterly.

The ranges in this table describe the wind direction:

from	to	wind direction
0°	89°	north-easterly
90°	179°	south-easterly
180°	269°	south-westerly
270°	359°	north-westerly



Create a table to count the number of days for each kind of wind like this:

direction of the wind	number of days with the highest wind gust	number of days of main wind direction
north-easterly		
south-easterly		
south-westerly		
north-westerly		

Fruit farmers need to protect their produce from the wind. This data will help them decide where to put their wind breaks.

Create a fully labelled comparative chart to display this information.

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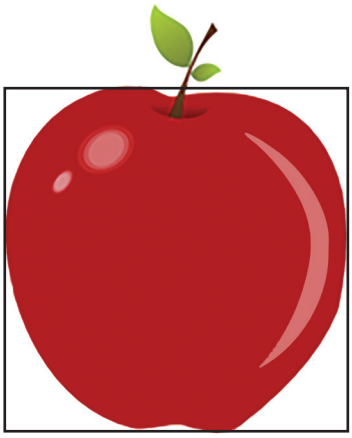
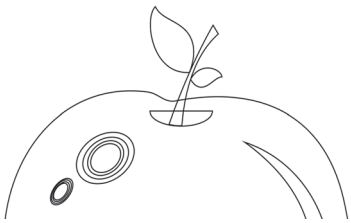
Task 2

Create a vector graphic copy of this apple.

The body of the apple must fit in a 300-pixel square.



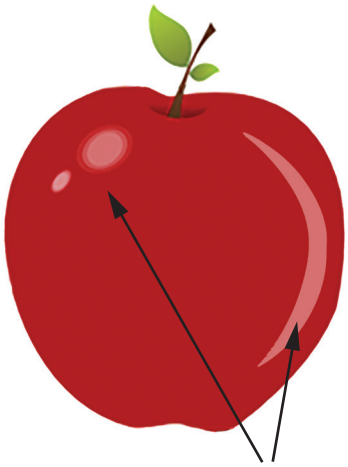
The colour of the apple must be RGB 180,0,0 (#B40000)



In wireframe mode the stalk and the leaves must look like this.

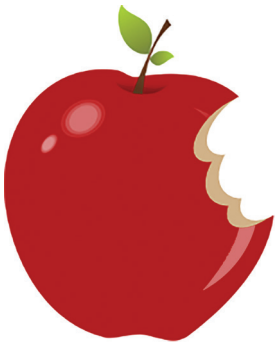
The indentation between the base of the stalk and the apple must be darker.

The stalk must be brown, and the leaves must have a green gradient.

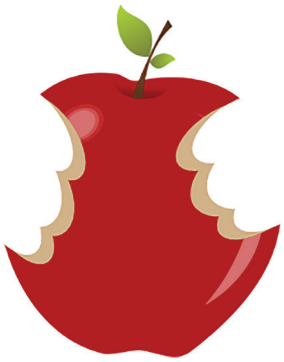


There must be light 'blooms' as shown.

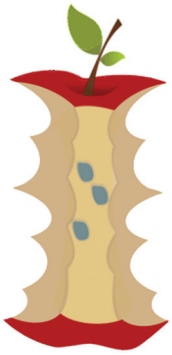
Save the image as an .svg file named **Apple_** followed by your centre number_candidate number. For example, Apple_ZZ999_9999



Edit the image to show the apple has been bitten once.
Save the image as **Bite1.svg**



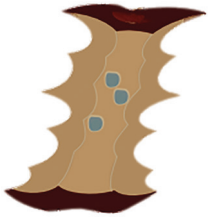
Edit the image to show two bites.
Save the image as **Bite2.svg**



Edit the image to appear as an apple core.
Save the image as **AppleCore.svg**

Edit the image to make the apple core look rotten as shown.

Save the image as **OldCore.svg**



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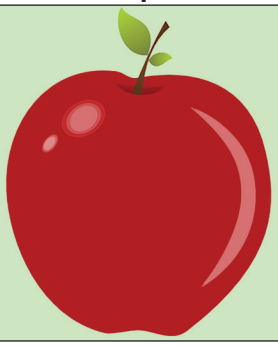
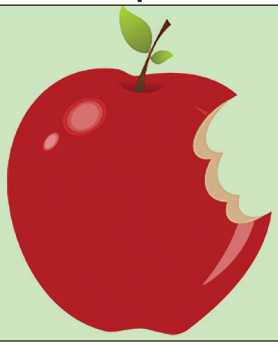
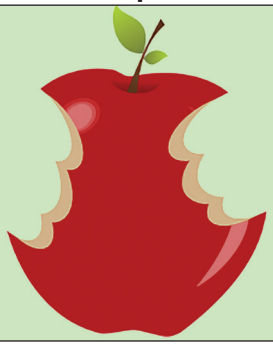
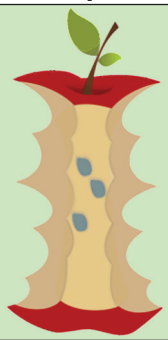
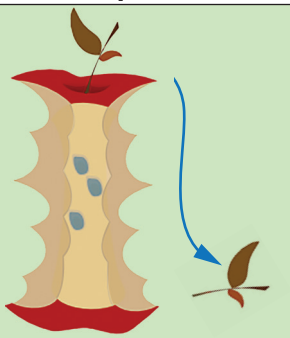
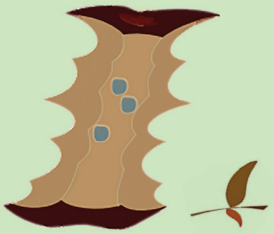
Task 3

Using your images from **Task 2**, create an animation of the apple being bitten using the steps shown.

Set a frame size of 300 pixels wide by 400 pixels high.

Set the frame colour to RGB 200,255,200 (#C8FFC8)

step 1	step 2	step 3
		
At 0 seconds, set the apple image in the centre of the frame.	At 2 seconds, the *Bite1* image must replace the apple image.	At 4 seconds, the *Bite2* image must replace the *Bite1* image.

step 4	step 5	step 6
		
At 6 seconds, the *AppleCore* image must replace the *Bite2* image.	During the next 2 seconds the leaves must turn brown and then take 1 second to fall.	During the next 2 seconds the *AppleCore* image must tween into the *OldCore* image.

step 7	step 8
During the next 2 seconds the images must fade out.	After another 2 seconds the animation must start again.

Save your animation as an animated gif named **Bites_** followed by your centre number_candidate number. For example, Bites_ZZ999_9999

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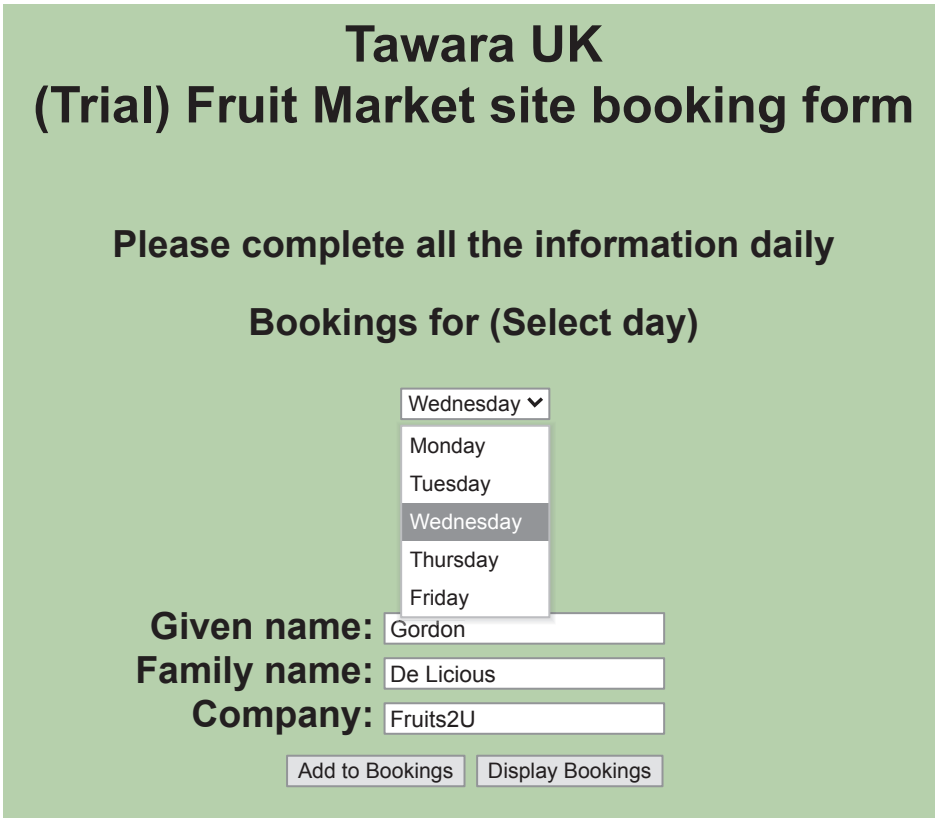
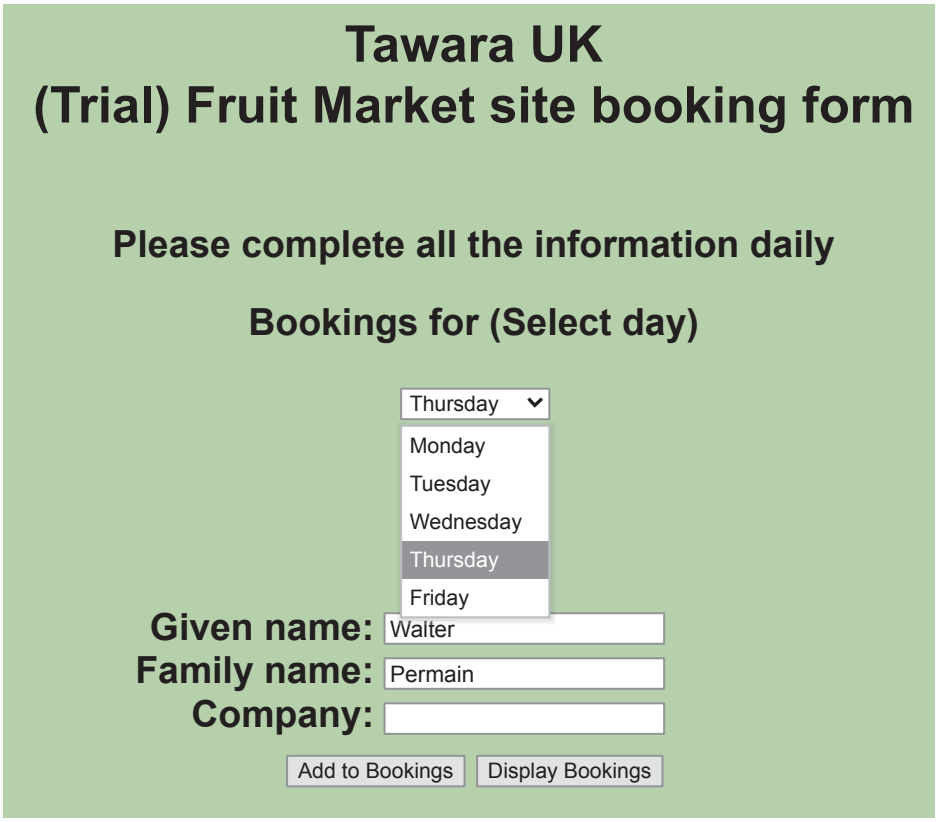
Task 4

Open **BookingsArrayTask.html** in a browser. Click the buttons to observe the results.

The page must accept entries and store them in an array when the *Add to Bookings* button is pressed.





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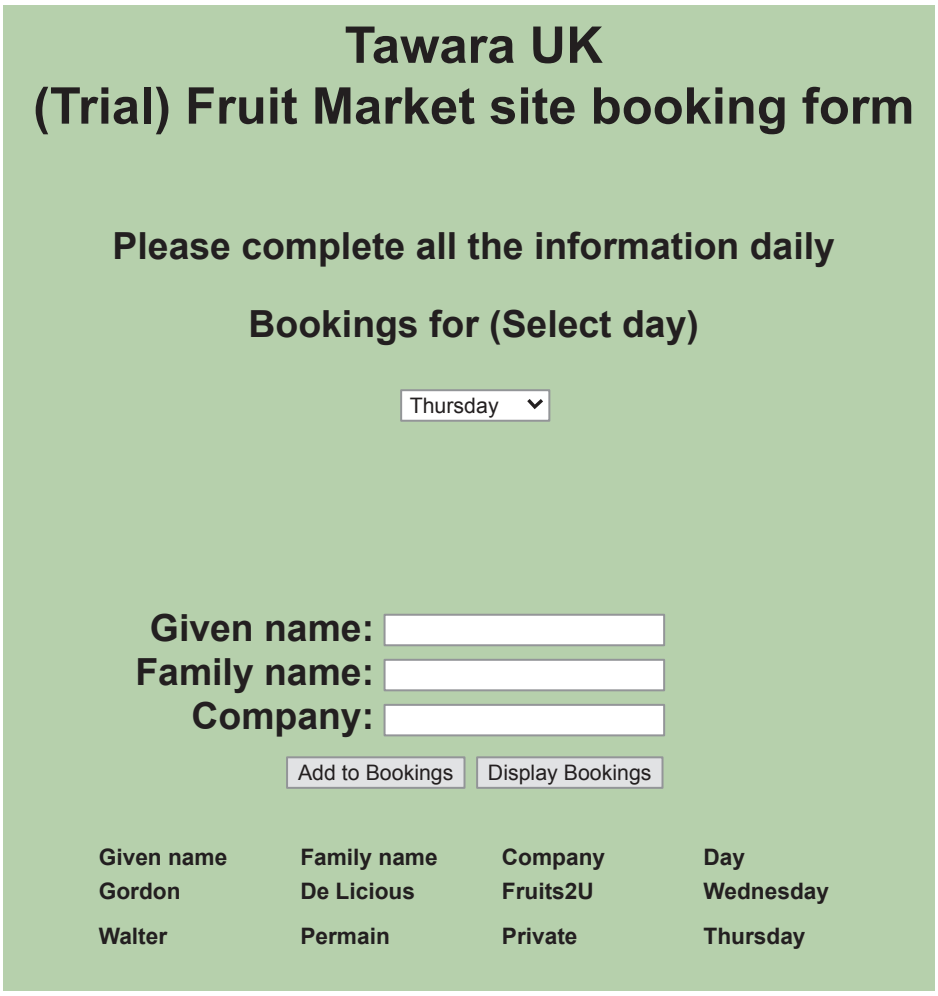
Clicking the *Display Bookings* button must display the contents of the array.



Open the file in a text editor. The comments provide the information you need to complete this task.

The *Display Bookings* button calls the `displayArray()` function. Do **not** alter the code for this function. You must use it to test your solutions.

The *Add to Bookings* button must call the `addData()` function.

(a) Change the code for the `addData()` function to add *Given name*, *Family name* and *Company* data input to the empty *BookingData* array. The names of the variables to use are **Gname**, **Fname** and **Cname**

Add a few records, and test your solution by clicking the *Display Bookings* button.

Save your solution as **ArrayTask1_** followed by your centre number_candidate number. For example, ArrayTask1_ZZ999_9999

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(b) Add code to check that both name fields are completed before the data is added to the *BookingData* array. The page should display an alert with a suitable error message if both fields are not completed. The *Company* field may be left blank.

Save your solution as **ArrayTask2_** followed by your centre number_candidate number. For example, ArrayTask2_ZZ999_9999

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(c) Add code to clear the input boxes after the data is added to the *BookingData* array.

Save your solution as **ArrayTask3_** followed by your centre number_candidate number. For example, ArrayTask3_ZZ999_9999

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(d) If the *Company* input box is left blank, add code to insert the text **Private** in the array for the company field.

Save your solution as **ArrayTask4_** followed by your centre number_candidate number. For example, ArrayTask4_ZZ999_9999

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