

Cambridge International AS & A Level  
Information Technology  
9626

For examination from 2017

Topic 10 Sound and video editing

**Sub-topic 10a Sound editing – Task 2**

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Version 1



## Audio editing task guide

These tasks could be attempted using almost any audio editing application. There are also a number of video editing applications with the facilities to edit audio to the extent required for the tasks. The software used in the screenshots shown below was Audacity®.

Audacity was chosen because it is a free open source digital audio editor and recording application and is available for different operating systems such as Windows, OS X and Linux varieties. Audacity can record audio from multiple sources and can be used for post-processing of all types of audio.

The tools needed for these tasks are simple and available in all audio editing applications. In most cases the menu items and tool buttons use the same text and the same symbols.

These tasks are designed to be undertaken as a learning process. Learners should be encouraged to use the tasks to explore the menu items and tools available in the software.

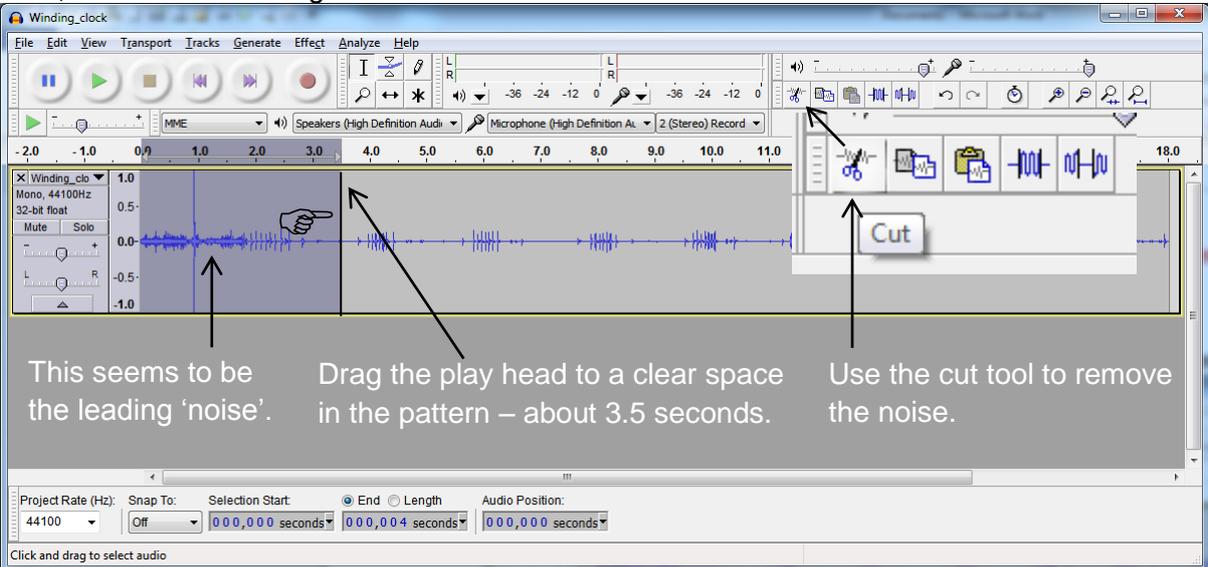
Often there is more than one way to satisfy the requirements of the task. At first, the exercises should be about exploring a variety of options and not about determining the most efficient methods. It is recommended therefore, that learners begin the tasks without access to this tutorial material.

### Task 2

(1) Remove the leading noise and trim the **Winding\_clock.wav** file to five seconds. Export the file in **.mp3** format at 128 kbps.

Drag and drop the **Winding\_clock.wav** file into Audacity (see task 1).

First, remove the leading noise...



The screenshot shows the Audacity interface with a single audio track named 'Winding\_clock'. The waveform shows a period of silence followed by a sound. A blue play head is positioned at approximately 3.5 seconds. A selection box is drawn from the start of the sound to the play head. The 'Cut' tool is highlighted in the toolbar. Three arrows point from text boxes below to the waveform, the play head, and the 'Cut' tool.

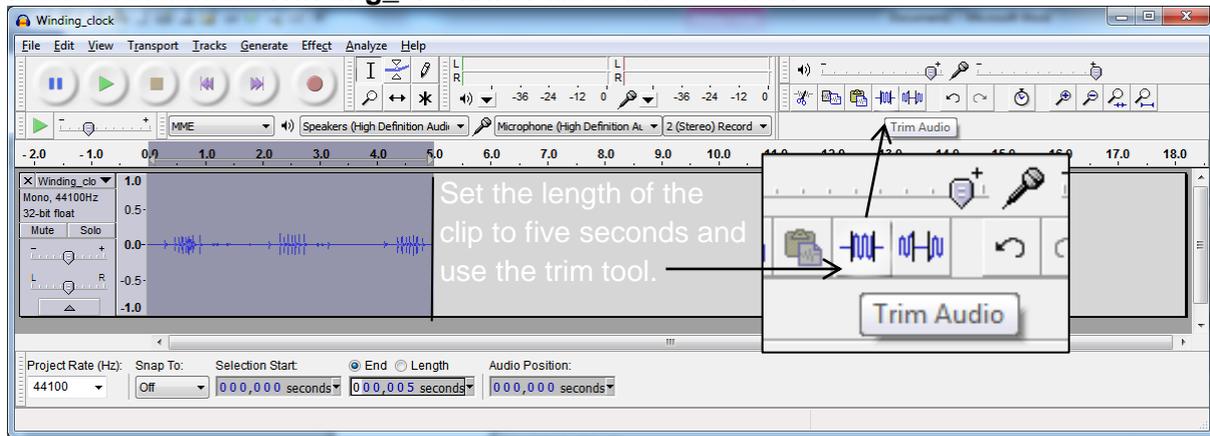
This seems to be the leading 'noise'.

Drag the play head to a clear space in the pattern – about 3.5 seconds.

Use the cut tool to remove the noise.

Project Rate (Hz): 44100 | Snap To: Off | Selection Start: 000,000 seconds | End: 000,004 seconds | Audio Position: 000,000 seconds

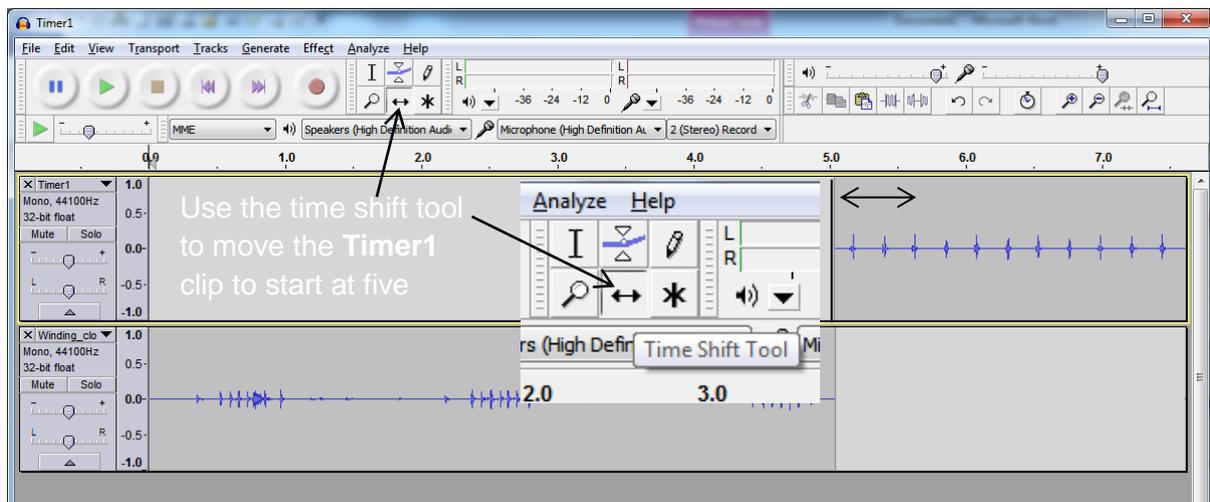
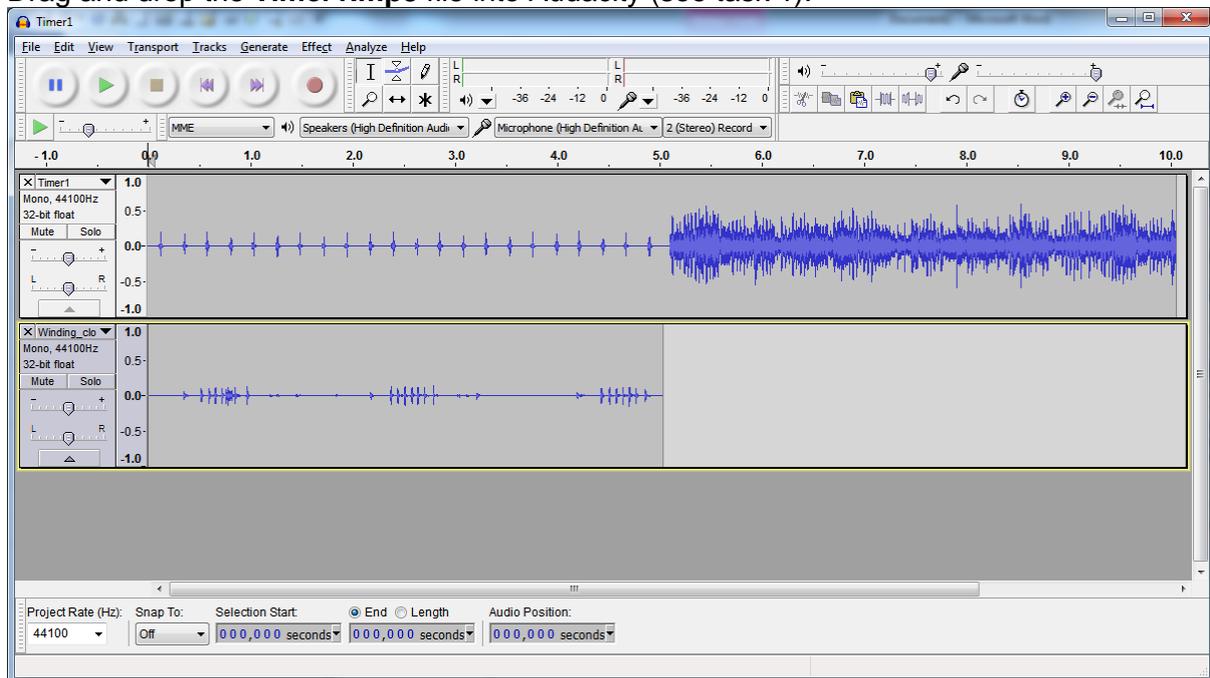
...and then trim the **Winding\_clock.wav** file to five seconds.

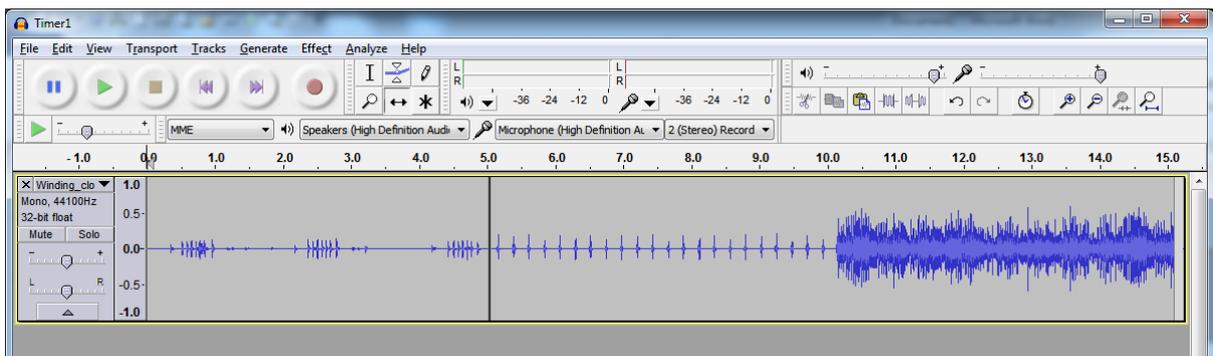
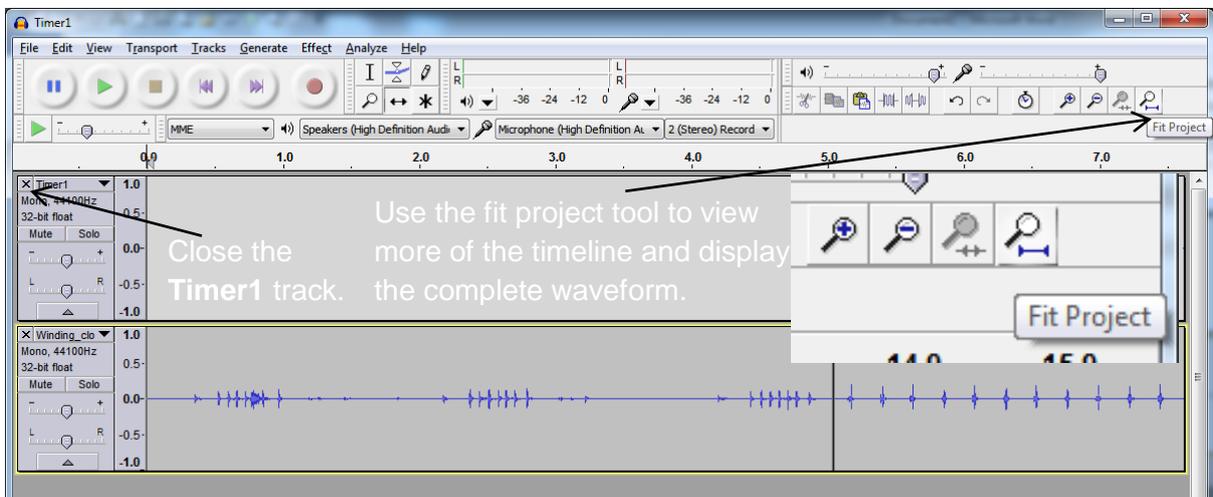
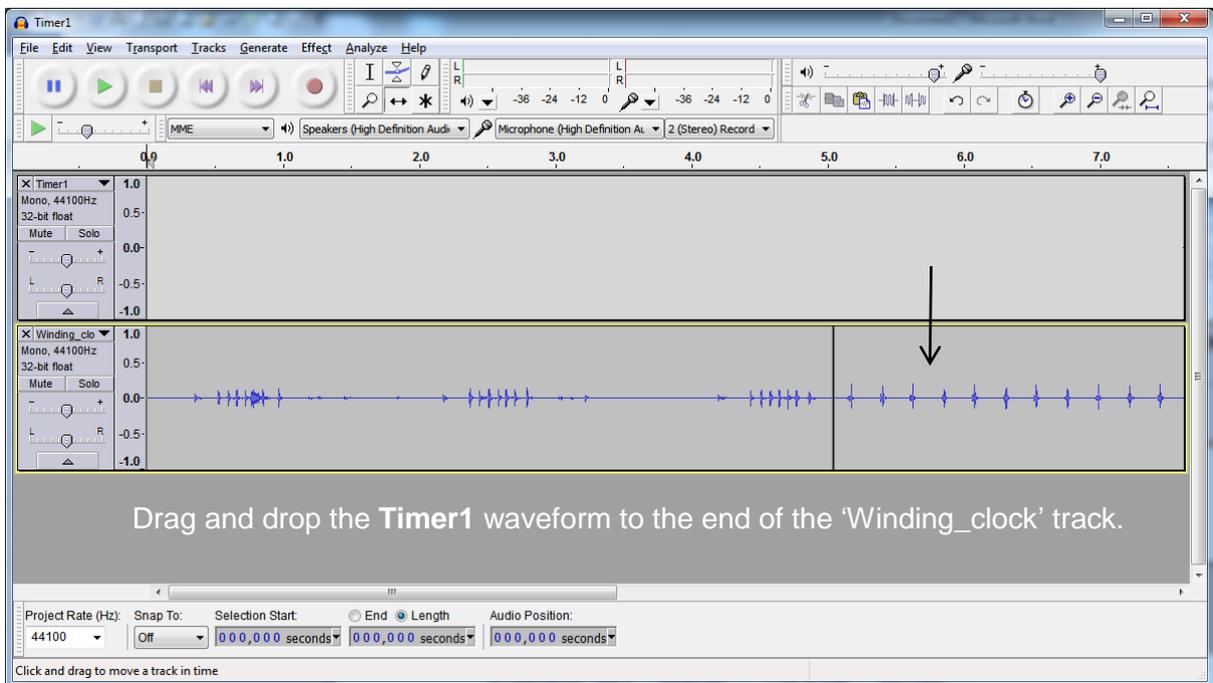


Export the file in **.mp3** format at 128 kbps (see task 1).

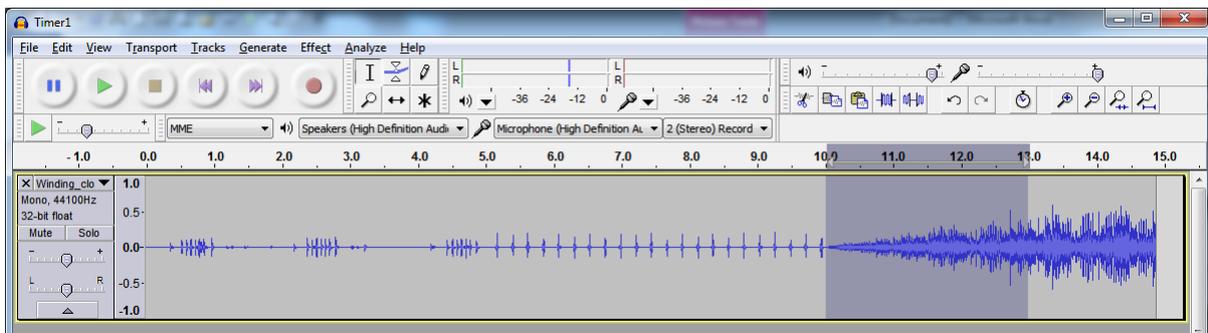
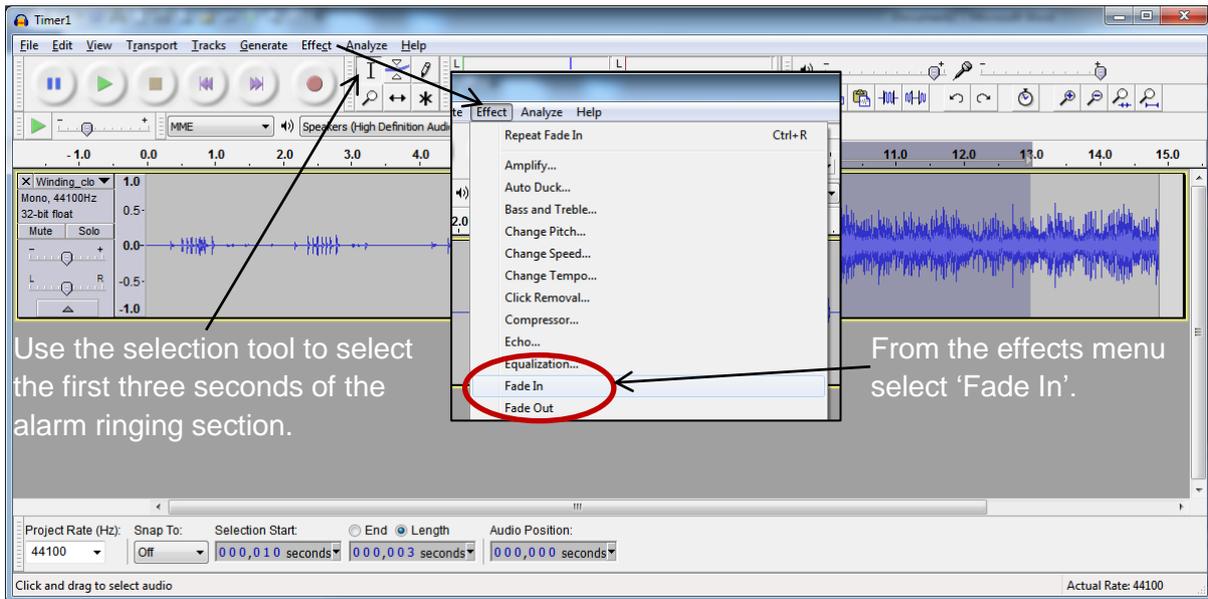
(2) Add the sound to the beginning of the **Timer1** file created in task 1.

Drag and drop the **Timer1.mp3** file into Audacity (see task 1).





(3) Fade in the volume of the alarm-ringing section to full volume over the first three seconds. Export the file in **.mp3** format and save as **Timer2.mp3**.



Export the file in **.mp3** format as **Timer2.mp3** (see task 1).