Question 1 Not yet answered Marked out of 25.00 (v1 (latest)

Part 1: Python

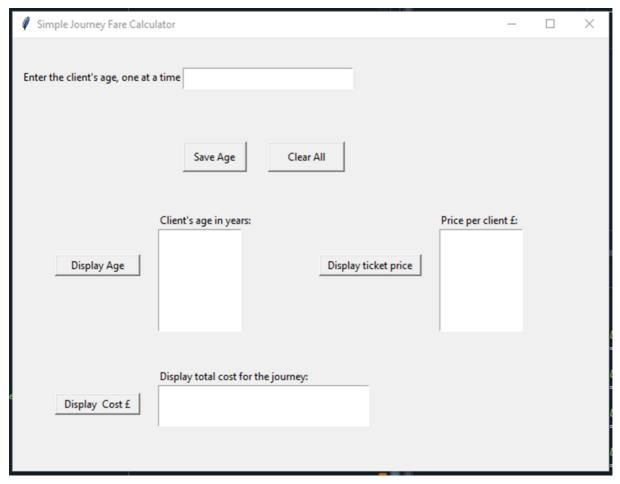
Problem: A bus company determines the ticket price based on the passenger's age. Passengers 2 years of age and less should travel for free (£0). Children between 3 and 12 years of age cost £7 each. The ticket price for seniors aged 66 and over costs £13 each. The ticket price for any other passengers should cost £18 each.

You are required to create a program that begins by reading the ages of all the passengers in a group, one age entered at a time.

You should write the code for each task below in the same **python source file**, as indicated below. You should then submit **your source file** through Moodle as described at the end. Your file should be named **your_name_python_task.py** (replace "your_name" with your actual name).

Python Task 1a: tkinter GUI

Create a program that should display the following screen [4 marks]:



Python Task 1b: Database and computing the bus price for a group travelling to the city

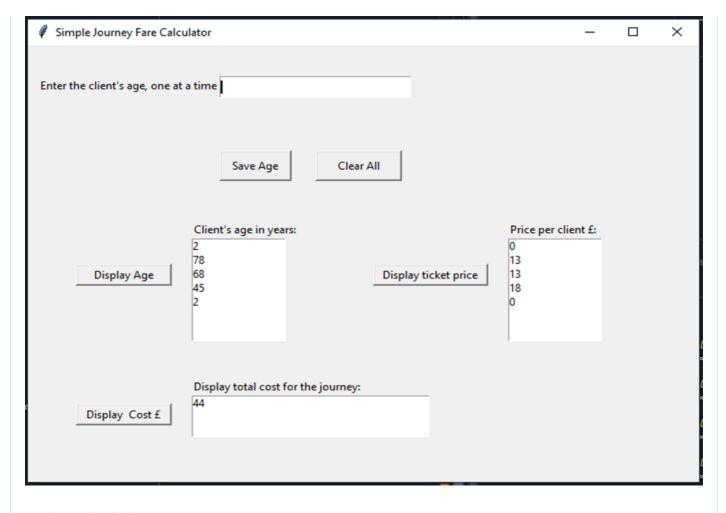
The programme should save each passenger's age and each ticket price in a database when the "Save" button is clicked, and the window should be automatically cleared to allow the next passenger's age to be entered. [6 marks]. The database should be called **TravelPrice**. [1 mark].

If a user clicks the button "Display age", the system should display all the passengers' age saved in the database. [3 marks]

If a user clicks the button "Display ticket price", the system should display the ticket price per passenger's age saved in the database. Note: Each ticket price must correspond to the passenger's age [3 marks]

If a user clicks the "Display cost" button, the system should display the total cost for the journey for that group of passengers. [5 marks]

It should clear all three Display windows and delete everything from the database when the "Clear All" button is clicked (if the program is restarted and the Display buttons are clicked, nothing should appear) [2 marks]



Python submission

Ensure your submission file is named exactly as it is supposed to (i.e. **your_name_python_task.py**). Submit the final version of the file including all of the above tasks.

