

Cmpe 150 - Homework 1

Overview

You are assigned a task to write a ticket price calculator.

The code file will be doing 3 tasks;

- read input
- calculate the price, according to the input and the rules
- write output

Reading and writing is already done inside the ".py" file, and you do not need to add anything more.

Variables "age(integer), isStudent(boolean) and distance(float)" are filled with values from the input file.

What you need to do:

Write the code which calculates the correct price and saves it into the variable "price".

After the part which you wrote is processed, the code file will write the "price" variable onto some output file.

You can test your code with the given input file, output should be written as 789.75 to a file called "output.txt" at the same location as the other files.

Pricing Rules

1. Default price is distance *3
2. If the customer's age is lower than 12 or higher than 50, %50 discount is applied.
3. If the customer did not receive age discount, check for student discount, if customer is student, apply %25 discount.
4. Other than these discounts, apply %10 discount if distance is greater than 100.

Submission Details

Upload your script, filled with your code between the specified lines(with comment), to moodle from the homework submission

Change the name of the python file to "YOUR-NUMBER_HW1.py" (change YOUR-NUMBER to your student number.)

Some example calculations

- age:10, Not a student, 100km → 45
- age:55, Student, 200km → 90
- age:30, Student, 44km → 33