Project 3 Report

# Pseudocode

First I’ll welcome the user.

Since the final output of the program is supposed to be the price, which is related to the user’s age, I will start by asking for the day of the week.

So that they remain independent from the if/else statements, I will create two variables – old and age. Old will hold a string asking for the user’s age. Age will hold an integer that the user inputs to represent their age.

After asking the user for the day of the week they plan on taking the tour I will evaluate their answer using an if/else statement

The if/else statement will include special cases for :

-Tuesday : which outputs a statement explaining that we’re closed.

-Input other than a day of the week : which outputs an error message.

I’ll also include a negative integer for age in these cases since the user’s age should be greater than or equal to 0. This is necessary since age is initialized at 0 (which is, of course, less than 14) and will help me accomplish two things simultaneously :

-I can output a message to a user younger than 14 if they’ve entered a day that the business is open.

-I can hide that message if the business is closed or the user enters an invalid value for the day of the week.

If the user enters any day other than Tuesday they will be asked ‘old’ which gets “How old are you?”.

I’ll generate another if/else statement that evaluates what the user inputs for variable ‘age’.

-If the user is under 14 I will output a message advising that they are not old enough to ride unless it finds that the user entered a value for ‘day’ that gives a negative integer to ‘age’.

-If the user is 14-21 I will output a message advising that indicates their ticket will cost $45.

-If the user is 65 or older I will output a message advising that indicates their ticket will cost $40.

-If the user enters an age from 22-64 I will output a message that indicates their ticket will cost $60.

# Test cases

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Input for Days** | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday | Other input |
| (case-insensitivity test) | monday | tUesday | weDnesday | thuRsday | fridAy | saturdAy | sunday | other  input |
| **Output** | Ask for age | We’re closed | Ask for  age | Ask for age | Ask for age | Ask for  age | Ask for age | Error message |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Input for Age** | 0 | 13 | 14 | 21 | 22 | 64 | 65 | 120 |
| **Output** | Too young. | Too young. | Ticket $45. | Ticket $45. | Ticket $60. | Ticket $60. | Ticket $40. | Ticket $40. |

# Rollins Honor Code

"On my honor, I have not given, nor received, nor witnessed any unauthorized assistance on this work.”

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