* What are the named variables you will use?  List their names, data types, and purpose.

Char inferry, issenior, over76 - char variables hold 1 character or 1 byte.

Int adults, seniors, youths, bikes, vehicleleng - var int store numbers.

Double adultmon, seniormon, youthmon, bikemon, vehmon, total – stores number up to 15 digits or 8 bytes.

Inferry – stores if the the vehicle is going to the ferry

Issenior – stores whether the person driving is a senior or disabled or not

Over76 – stores whether the vehicle is over 7’6 or not

Adults – takes input of # of adults

Seniors – takes input of number of seniors

Youth – takes input of number of youth

Bikes – takes input of number of bikes

Vehicleleng – takes input of vehicles length

adultmon, seniormon, youthmon, bikemon, vehmon, total – These variables jobs is to store the amount of money associated with each variable each variable (ie: bikes, youth, adults)

* What are the unnamed variables you will use?  List their data type and purpose.

There are none unnamed variables

* What input data is needed by the program?

-Whether you are driving vehicle to ferry.

-If the driver is senior or disabled.

-number of adults, senior citizens, youths, bikes

-whether the vehicle is over 7’6 or not

-how long your vehicle is.

* What output data is generated by the prorgam?

The total fare is generated.

* Describe how the input data will be transformed into the output data.

The number of adults, seniors, youths, bikes, gets calculated with its associated fare price for each category to get the price it costs just for the people traveling.

Then If the vehicle length is under 22 units, it goes through a series of if and else statements to generate the price for vehicle under 22 units in length. For example, if the vehicleleng is < 14, over76 == no, and issenior == no, then the vehiclemon (or vehiclemon cost that is going to be added to the total) will be $36.05.

Then I did the same thing for vehicles with length of under 30 and over 22, if that is not true then under 40, if that is not true then under 50. If it is over 50, console output, “your vehicle cannot go past 50 units”.

In the end, I calculated the total as the sum of adultmon, seniormon, youthmon, bikemon, and lastly vehmon.

Then console out the total price.

Console out “thank you for using bins calculator.”