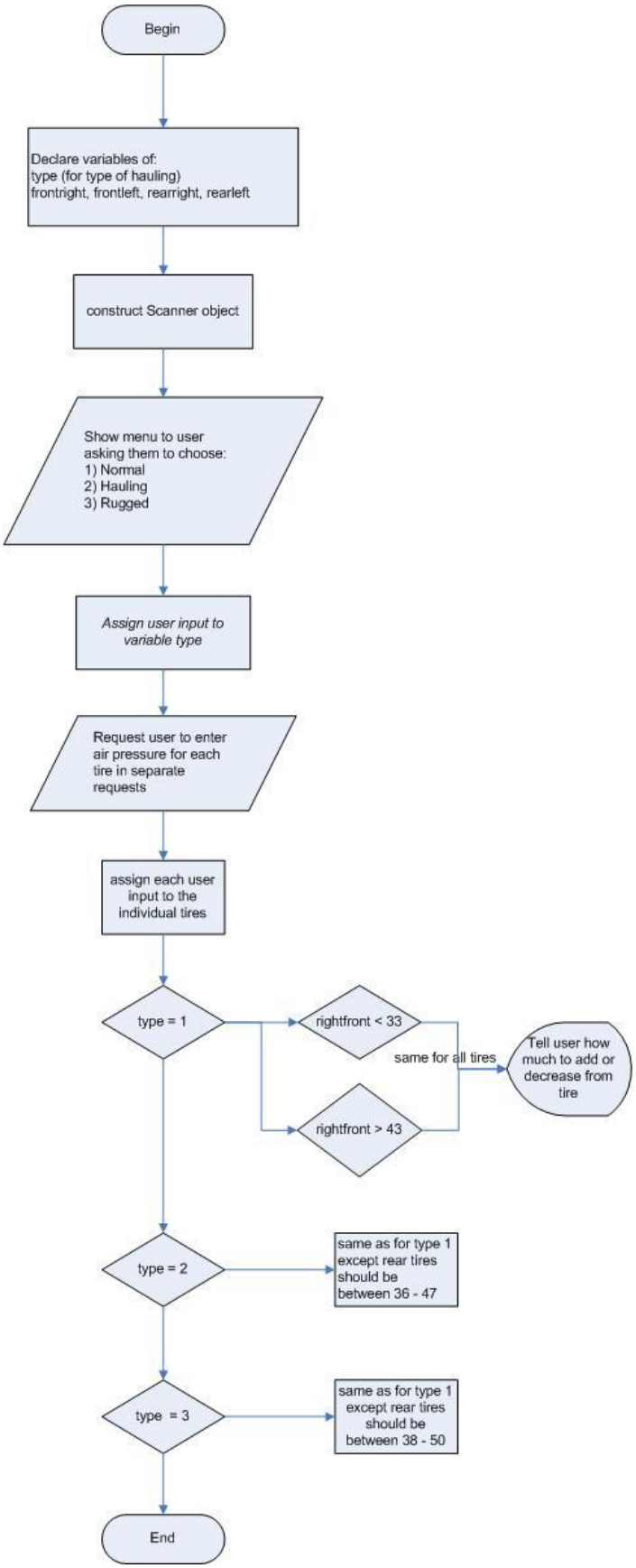
CIT 149: Java I
Chapter 3
Programming Assignment 1

In this program you will determine whether the tires on your vehicle have enough air pressure. The air pressure of the tires is dependent on how the vehicle is to be used. The flowchart depicts the cases and the amount of tire pressure needed in the four tires. This is a rough outline. The decisions for type 2 and type 3 have noted only the differences from type 1.


Begin
Declare variables of:
type (for type of hauling)
frontright, frontleft, rearright, rearleft
construct Scanner object
Show menu to user
asking them to choose:
1) Normal
2) Hauling
3) Rugged
Assign user input to variable type
Request user to enter air pressure for each tire in separate requests
assign each user input to the individual tires
type = 1
rightfront < 33
rightfront > 43
same for all tires
Tell user how much to add or decrease from tire
type = 2
same as for type 1 except rear tires should be between 36 - 47
type = 3
same as for type 1 except rear tires should be between 38 - 50
End

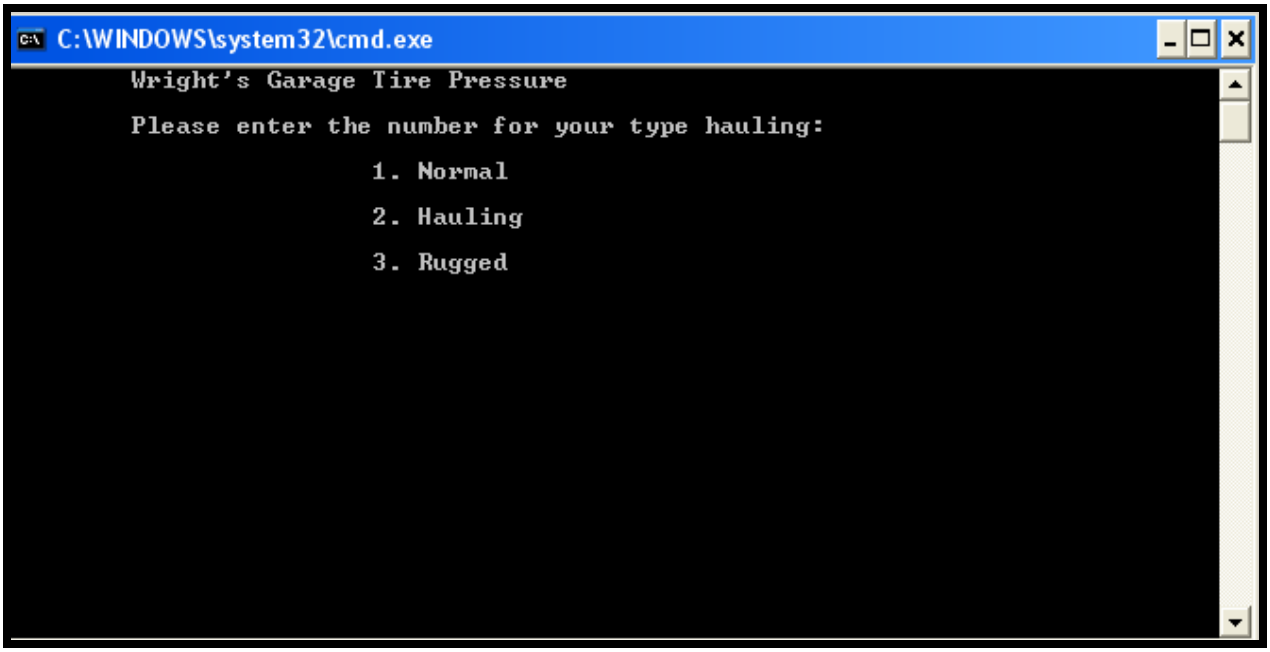
switch statements always have an argument of either a char or int data type, except in JDK version 1.7 string types are allowed. The tire air pressure should be:

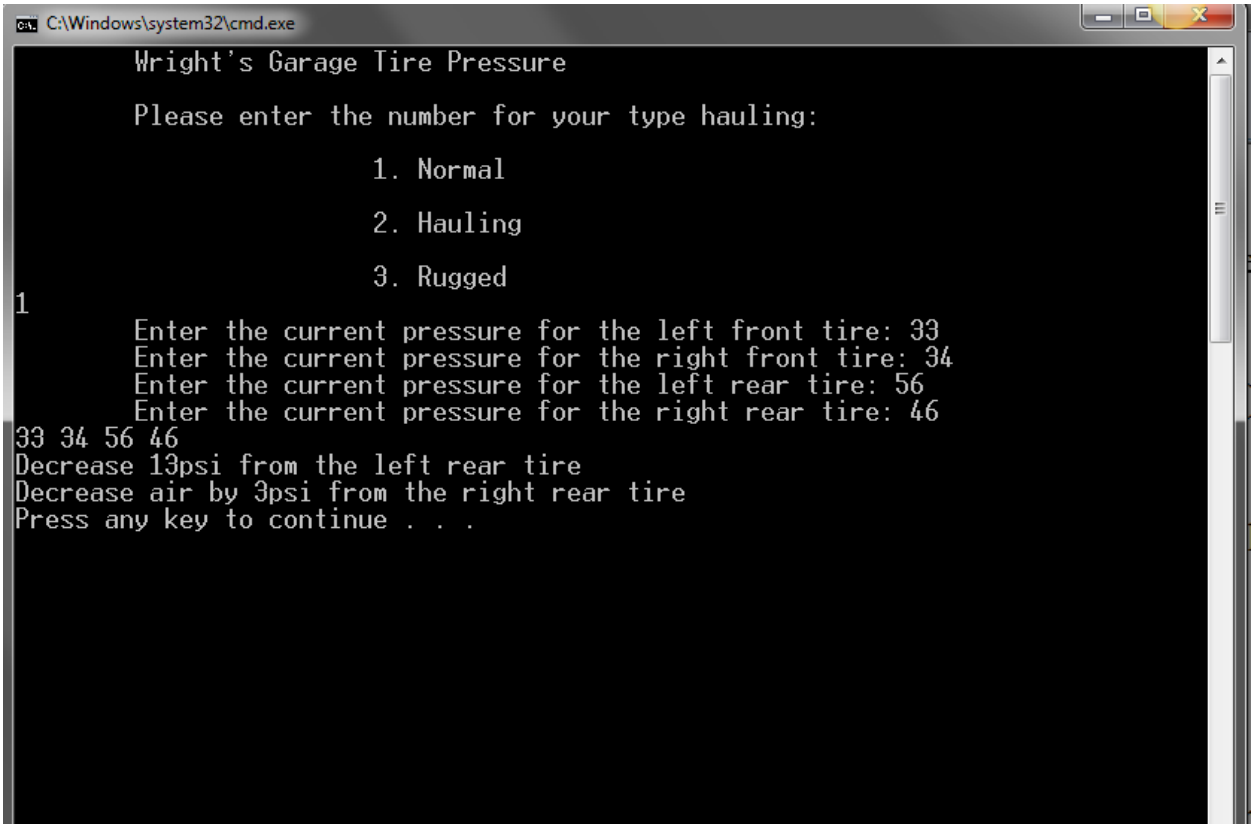
- Normal the air pressure should be between 33-43psi for all 4 tires.
- Hauling the air pressure for the front tires should be between 33-43psi and for the rear tires should be between 36-47psi.
- Rugged the air pressure for the front tires should be between 33-43psi and for the rear tires should be between 38-50

In this case you use the integer *type* for the argument. For example:

case 1:

The following screen shots show some sample data:





Compressed both the source and class files into a single zip or rar file and upload it to the appropriate drop box.