Design

```
Main
```

#Initialize variables (tirePrice=140 installPrice=5, numTires,TireCost,installCost,totalCost=0)

#Display welcome message

#Prompt the user for number of tires #Get the user response

#Calculate the cost of tires (number of tires * tirePrice)
#Calculate the cost of installation (number of tires * installPrice)

#Calculate the total cost of purchase (sum of costs of tires and cost of installation)

#Display the results(totalCost)

End

Test Plan/Report

<u>T</u>	est # Input(no.tires)	Expected Output	Actual Output	P/F
1	2	The cost of your purchase is \$290	290	Pass
2	4	The cost of your purchase is \$580	580	Pass
3	8	The cost of your purchase is \$1160	1160	Pass
4	-1	*** Invalid Input ***	-145	Fail

Optional (include calculaton)

Test # Calculation 2*140 = 280(tireCost) 2*5 = 10 (installCost)280+10 = 290 (totalCost)2 4*140 = 560(tireCost) 4*5 = 20 (installCost)560+20 = 580 (totalCost)3 8*140 = 1120 (tireCost) 8*5 = 40 (installCost)1120+40 = 1160 (totalCost) 4 -1*140 = -140(tireCost) -1*5 = -5(installCost) -140 + -5 = -145 (totalCost)

Screen Shots

Test#1

Test#1-3

```
Python 3.7.7 Shell
                                                                  – 🗆 X
File Edit Shell Debug Options Window Help
Python 3.7.7 (tags/v3.7.7:d7c567b08f, Mar 10 2020, 10:41:24) [MSC v.1900 64 bit ^
(AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
====== RESTART: C:\Users\blbid\Downloads\UMGC\Wk2\Week2 TiresCost.py =======
Welcome to Bernie's Tire service program
This program will calculate the cost of your tire purchase , including installat
How many tires would you like to purchase ?
The total cost of your purchase is: $ 290.0
--- Name: Prof B. ---
CMIS 102/6381 8/1/2020
====== RESTART: C:\Users\blbid\Downloads\UMGC\Wk2\Week2 TiresCost.py =======
Welcome to Bernie's Tire service program
This program will calculate the cost of your tire purchase , including installat
How many tires would you like to purchase ?
The total cost of your purchase is: $ 580.0
--- Name: Prof B. ---
CMIS 102/6381 8/1/2020
>>>
====== RESTART: C:\Users\blbid\Downloads\UMGC\Wk2\Week2 TiresCost.py =======
Welcome to Bernie's Tire service program
This program will calculate the cost of your tire purchase , including installat
ion
How many tires would you like to purchase ?
The total cost of your purchase is: $ 1160.0
--- Name: Prof B. ---
CMIS 102/6381 8/1/2020
>>>
```

Test#4

```
>>> ======= RESTART: C:\Users\blbid\Downloads\UMGC\Wk2\Week2_TiresCost.py ========

Welcome to Bernie's Tire service program

This program will calculate the cost of your tire purchase , including installat ion

How many tires would you like to purchase ? -1

The total cost of your purchase is: $ -145.0

--- Name: Prof B. ---

CMIS 102/6381 8/1/2020

>>>> |
```