# Assignment Description

The assignment is for a dealership. The program will create an order for a customer, and the customer will be able to pick up 3 colors.

# GitHub URL (optional)

# Readme Documentation

Input Information: The customer will have a list with numbers. The user has to choose on of the option form the list.

List od colors

1. Sunset Orange (SUNSET)
2. Cherry Bomb (CHERRY)
3. Phantom Black (PHANTOM)
4. Titanium Silver (TITANIUM)
5. Geaux Gold (GEAUX)
6. Lightning Yellow (LIGHTNING)
7. Forest Green (FOREST)
8. Midnight Blue (MIDNIGHT)
9. Passion Purple (PASSION)
10. Root Beer (ROOT)
11. Storm Surge (STORM)
12. Ocean's Rip (OCEAN)
13. Glacial White (GLACIAL)

* Select one of the options: a number from the list (1-13)

Output Information: The list will display 3 times giving the user to choose the colors for the 3 different parts of the car. If the user enters something different than a number or a number different from the list, the program will display:

* You entered something that is not a number. ( in case the user does not enter a valid number)
* Please enter a number from the list. (in case the number is different than the numbers on the list)

# Flowchart Screen Shots (optional)

# Source Code of All files (.h, .cpp)

1. /\* Program name: Custom Cars
2. \*  Author: Carlos Lizarazu
3. \*  Date last updated: 09/25/2024
4. \* Purpose: The program is for a Dealership shop. It will be able to let the user choose 3 different colors.
5. \* One for the Body, one for the Top, and one for the Trim.
6. \*/
7. #include <iostream>
8. #include <limits>
9. using namespace std;
10. enum carColorType{
11. Sunset\_Orange=1,
12. Cherry\_Bomb,
13. Phantom\_Black,
14. Titanium\_Silver,
15. Geaux\_Gold,
16. Lightning\_Yellow,
17. Fores\_Green,
18. Midnight\_Blue,
19. Passion\_Purple,
20. Root\_Beer,
21. Storm\_Surge,
22. Oceans\_Rip,
23. Glacial\_White
24. };
25. //Function for the list
26. string colorList(){
27. string arr[13]={"Sunset\_Orange",
28. "Cherry\_Bomb",
29. "Phantom\_Black",
30. "Titanium\_Silver",
31. "Geaux\_Gold",
32. "Lightning\_Yellow",
33. "Fores\_Green",
34. "Midnight\_Blue",
35. "Passion\_Purple",
36. "Root\_Beer",
37. "Storm\_Surge",
38. "Oceans\_Rip",
39. "Glacial\_White"};
40. //Declare the variable
41. string output="";
42. for(int i=0; i<=12; i++){
43. output += to\_string(i+1)+". "+arr[i]+'\n';
44. }
45. return output;
46. }
47. //Function to get the color
48. string getColor(){
49. int cPart;
50. cout<<colorList();
51. while(true){
52. if(cin>>cPart){
53. if(cPart<=0 || cPart>13){
54. cout<<"Please enter the number next to the color you want to choose: "<<endl;
55. }else{
56. switch(cPart){
57. case 1:
58. return "Sunset Orange";
59. break;
60. case 2:
61. return "Cherry Bomb";
62. break;
63. case 3:
64. return "Phantom Black";
65. break;
66. case 4:
67. return "Titanium Silver";
68. break;
69. case 5:
70. return "Geaux Gold";
71. break;
72. case 6:
73. return "Lightning Yellow";
74. break;
75. case 7:
76. return "Fores Green";
77. break;
78. case 8:
79. return "Midnight Blue";
80. break;
81. case 9:
82. return "Passion Purple";
83. break;
84. case 10:
85. return "Root Beer";
86. break;
87. case 11:
88. return "Storm Surge";
89. break;
90. case 12:
91. return "Oceans Rip";
92. break;
93. case 13:
94. return "Glacial White";
95. break;
96. }
98. }
99. }else{
100. cout<<"You entered something that is not a number. Please Try again."<<endl;
101. cin.clear();  // clear the error flag
102. cin.ignore(numeric\_limits<streamsize>::max(), '\n');
103. }
104. }
105. }
106. //Function to print the color
107. void printColor(string array[3]){
108. for(int j=0; j<=3; j++){
109. if(j==0){
110. cout<<"You have chosen "<<array[j]<<" for the body, ";
111. }else if(j==1){
112. cout<<array[j]<<" for the top, and ";
113. }else if(j==2){
114. cout<<array[j]<<" for the trim"<<endl;
115. }
116. }
117. }
118. //Main function starts here
119. int main(){
121. string arr[3]={"","",""};
122. for (int i=0; i<=3;i++){
123. if(i==0){
124. cout<<"Please choose a color for the Body"<<endl;
125. string color = getColor();
126. arr[i]=color;
127. }else if(i==1){
128. cout<<"Please choose a color for the Top"<<endl;
129. string color = getColor();
130. arr[i]=color;
131. }else if(i==2){
132. cout<<"Please choose a color for the Trim"<<endl;
133. string color = getColor();
134. arr[i]=color;
135. }
136. }
137. //Call the print color function
138. printColor(arr);
139. cout<<"Do you want to continue with your order? [Y]es or [N]ot"<<endl;
141. return 0;
142. }

# A screenshot of a computer program Description automatically generatedA screenshot of a computer program Description automatically generated5.Three Use Case Screen Shots

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A screenshot of a computer program

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