```
Script started on 2023-10-25 13:13:40-05:00 [TERM="xterm" TTY="/dev/pts/5" COLUMNS=
ee43254@ares:~$ pwd
/home/students/ee43254
ee43254@ares:~$ cat carwash.info
Name: Kyle Enkhzul
Class: CSC121-001
Activity: Hot Wax with That. Mister?
Level: 5, 4 (base program), 1 (generate random wash code)
Description:
This program simulates a carwash experience for the consumer. The consumer
is prompted if they want a carwash and if so what kind of car wash. They get to
choose from three different types, Super, Premium, or Ultra. Each type of car
wash has a certain price which then the consumer is asked if the price is ok
with them. If not, they are reprompted if they want a car wash again and the
program iterates through the questions until the consumer does not want a car
wash or gets a car wash and accepts the fee. ee43254@ares:~$ show-code carwash.cpp
carwash.cpp:
     1 #include <iostream>
     2 #include <limits>
     4 using namespace std;
       constexpr streamsize INF FLAG{numeric limits<streamsize>::max()};
     7
     8
        void generateCode() {
    9
            unsigned long random = (static cast<unsigned long>(rand() %
                (9999999 - 1000000 + 1000000) + 1000000));
    10
    11
            cout << "\nGood. vour wash code is " << random</pre>
                    << ". It will be good until noon on Friday\n";
    12
    13 }
    14
    15
       int main() {
    16
            double cost of super = 5.00,
```

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17
               cost of premium = 6.00,
18
               cost of ultra = 8.00:
19
        char yes no, choice, answer;
20
21
        srand(static cast<unsigned>(time(nullptr))):
22
23
        cout << "\t\t Welcome to Kyle's Gas'n'Go Car Wash System!!!\t\n";</pre>
        cout << "\nWould you like a car wash today? ";</pre>
24
25
        cin >> yes no;
26
        cin.ignore(INF FLAG, '\n');
27
28
        while(toupper(ves no) != 'N') {
29
            cout << "\nWhich wash would vou like: Super. Premium. or Ultra? ":</pre>
30
            cin >> choice:
31
            cin.ignore(INF FLAG, '\n');
32
33
            choice = static cast<char>(toupper(choice));
34
35
            switch(choice) {
36
                 case 'S':
37
                     cout.setf(ios base::fixed):
                     cout.precision(2);
38
39
                     cout.width(7);
40
                     cout << "\nThat will be $" << cost of super</pre>
41
                     << ", is that okay? ";
42
                     cin >> answer;
                     cin.ignore(INF FLAG, '\n');
43
44
                     if(toupper(answer) != 'N') {
45
                         generateCode();
46
                         yes no = 'N';
47
48
                     else {
49
                         cout << "\nI'm sorry...\n";</pre>
                         cout << "\n\nWould you like a car wash today? ";</pre>
50
51
                         cin >> yes no;
52
                         cin.ignore(INF FLAG, '\n');
53
54
                     break:
55
                 case 'P':
56
                     cout.setf(ios base::fixed);
57
                     cout.precision(2):
                     cout.width(7);
58
59
                     cout << "\nThat will be $" << cost of premium</pre>
60
                     << ", is that okay? ";
61
                     cin >> answer;
                     cin.ignore(INF FLAG, '\n');
62
63
                     if(toupper(answer) != 'N') {
64
                         generateCode():
65
                         yes no = 'N';
66
67
                     else {
68
                         cout << "\nI'm sorry...\n";</pre>
                         cout << "\n\nWould you like a car wash today? ";</pre>
69
70
                         cin >> yes no;
```

```
71
                             cin.ignore(INF FLAG, '\n');
    72
    73
                         break:
    74
                     case 'U':
    75
                         cout.setf(ios base::fixed):
    76
                         cout.precision(2);
    77
                         cout.width(7);
    78
                         cout << "\nThat will be $" << cost of ultra</pre>
    79
                         << ", is that okay? ";
    80
                         cin >> answer;
    81
                         cin.ignore(INF FLAG, '\n');
    82
                         if(toupper(answer) != 'N') {
    83
                             generateCode();
    84
                             ves no = 'N':
    85
    86
                         else {
    87
                             cout << "\nI'm sorry...\n";</pre>
    88
                             cout << "\n\nWould you like a car wash today? ";</pre>
    89
                             cin >> yes no;
    90
                             cin.ignore(INF FLAG, '\n');
    91
                         break;
    92
    93
                     default:
    94
                         cout << "\nI'm sorry, that choice is invalid! \n":</pre>
    95
                         cout << "\nPlease try to read/type more carefully ";</pre>
    96
                         cout << "next time\n";</pre>
    97
                 }
    98
    99
            cout << "\nThank you for using the KGnGCWS!! \n";</pre>
   100
            cout << "\nHave a good day! \n":</pre>
   101 }
ee43254@ares:~$ CPP carwash
carwash.cpp***
ee43254@ares:~$ ./carwash.out
                  Welcome to Kyle's Gas'n'Go Car Wash System!!!
Would you like a car wash today? yes
Which wash would you like: Super. Premium. or Ultra? super...man
That will be $5.00, is that okay? no way!
I'm sorry...
Would vou like a car wash today? YES !!!!
Which wash would you like: Super, Premium, or Ultra? Ultra...man
That will be $8.00, is that okay? No can do
I'm sorry...
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Would you like a car wash today? yuh...
Which wash would you like: Super, Premium, or Ultra? premioso por favor
That will be $6.00, is that okay? yeah...let me take out a loan first...
Good, your wash code is 6920596. It will be good until noon on Friday
Thank you for using the KGnGCWS!!
Have a good day!
ee43254@ares:~$ ./carwash.out
                 Welcome to Kyle's Gas'n'Go Car Wash System!!!
Would you like a car wash today? y
Which wash would you like: Super, Premium, or Ultra? s
That will be $5.00, is that okay? v
Good, your wash code is 5683012. It will be good until noon on Friday
Thank you for using the KGnGCWS!!
Have a good day!
ee43254@ares:~$ exit
exit
Script done on 2023-10-25 13:15:06-05:00 [COMMAND EXIT CODE="0"]
ce std;
    5
    6 constexpr streamsize INF FLAG{numeric limits<streamsize>::max()};
    8
       void generateCode() {
    9
            unsigned long random = (static cast<unsigned long>(rand() %
    10
                (9999999 - 1000000 + 1000000) + 1000000));
    11
            cout << "\nGood. vour wash code is " << random</pre>
    12
                    << ". It will be good until noon on Friday\n";
    13 }
    14
    15
       int main() {
    16
            double cost of super = 5.00,
    17
                   cost_of_premium = 6.00,
    18
                   cost of ultra = 8.00;
    19
            char yes no, choice, answer;
    20
    21
            srand(static cast<unsigned>(time(nullptr)));
    22
    23
            cout << "\t\t Welcome to Kvle's Gas'n'Go Car Wash System!!!\t\n":</pre>
            cout << "\nWould you like a car wash today? ";</pre>
    24
    25
            cin >> yes no;
    26
            cin.ignore(INF FLAG, '\n');
```

```
27
28
        while(toupper(yes no) != 'N') {
29
            cout << "\nWhich wash would you like: Super, Premium, or Ultra? ";</pre>
30
            cin >> choice:
31
            cin.ignore(INF FLAG, '\n');
32
33
            choice = static cast<char>(toupper(choice));
34
35
            switch(choice) {
                 case 'S':
36
37
                     cout.setf(ios base::fixed);
38
                     cout.precision(2):
39
                     cout.width(7);
40
                     cout << "\nThat will be $" << cost of super</pre>
                     << ", is that okay? ";
41
42
                     cin >> answer;
                     cin.ignore(INF FLAG, '\n');
43
44
                     if(toupper(answer) != 'N') {
45
                         generateCode();
46
                         yes no = 'N';
47
48
                     else {
49
                         cout << "\nI'm sorry...\n";</pre>
50
                         cout << "\n\nWould you like a car wash today? ";</pre>
51
                         cin >> yes no;
52
                         cin.ignore(INF FLAG, '\n');
53
                     break;
54
55
                 case 'P':
56
                     cout.setf(ios base::fixed);
57
                     cout.precision(2);
58
                     cout.width(7);
59
                     cout << "\nThat will be $" << cost of premium</pre>
                     << ", is that okay? ";
60
61
                     cin >> answer;
                     cin.ignore(INF FLAG, '\n');
62
                     if(toupper(answer) != 'N') {
63
64
                         generateCode();
65
                         yes no = 'N';
66
67
                     else {
68
                         cout << "\nI'm sorry...\n";</pre>
69
                         cout << "\n\nWould you like a car wash today? ";</pre>
70
                         cin >> yes no;
71
                         cin.ignore(INF FLAG, '\n');
72
73
                     break:
74
                 case 'U':
75
                     cout.setf(ios base::fixed);
76
                     cout.precision(2);
77
                     cout.width(7);
78
                     cout << "\nThat will be $" << cost of ultra</pre>
79
                     << ", is that okay? ";
80
                     cin >> answer;
```

```
cin.ignore(INF_FLAG, '\n');
if(toupper(answer) != 'N') {
    generateCode();
    yes_no = 'N';
}
else {
    cout << "\nI'm sorry...\n";
    cout << "\n\nWould you like a car wash today? ";
    cin >> yes_no;
    cin.ignore(INF_FLAG, '\n');
}
break;
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