```cpp
//Carlos Salazar CSCI 1300

#include <iostream>
using namespace std;

void PopulationCalc(void)
{
    int CurrentPop = 325766246;

    int TotalTime = (365 * 24 * 60 * 60);

    CurrentPop = CurrentPop + (TotalTime/8);

    CurrentPop = CurrentPop - (TotalTime/12);

    CurrentPop = CurrentPop + (TotalTime/33);

    cout << "Current U.S Population is " << CurrentPop << "." << endl;

    return;

}

void TotalTime(void)
{
    int InputTime;
    int Days;
    int Hours;
    int Minutes;
    int Seconds;

    Days = 0;
    Hours = 0;
    Minutes = 0;
    Seconds = 0;

    cout << "Input time to convert" <<endl;
    cin >> InputTime;

    while ( InputTime >= 86400)
    {
        InputTime = (InputTime - 86400);
        Days = Days + 1;

    }
    while ( InputTime < 86400 && InputTime >= 3600 )
    {
        InputTime = (InputTime - 3600);
        Hours = Hours + 1;

    }
    while ( InputTime < 3600 && InputTime >= 60)
    {
        InputTime = (InputTime - 60);
        Minutes = Minutes + 1;
    }
    while ( InputTime < 60 && InputTime > 0)
    {
        InputTime = (InputTime - 1);
        Seconds = Seconds + 1;
    }

    cout << "The time is " << Days << " days, " << Hours << " hours, " << Minutes << " minutes, and " <<
Seconds << " seconds"<<endl;
    return;
    //void functions will not return a value
```

```
}

double CelciusCovert()
// Want to include decimals to be more accurate
{
    double Farenheit;
    double Celcius;

    cout << "Input Farenheit Tempearture" << endl;
    cin >> Farenheit;

    Celcius = (((Farenheit - 32) * 5 ) / 9);

    cout << "Temperature is " << Celcius << " degrees Celcius." <<endl;


}

void NumberInput(void)
{
    int Number;

    cout << "Input number between 1-10"<<endl;
    cin >> Number;

    if (( Number <= 10) && (Number >= 1))
    {
        cout << Number << endl;
    }

    else
    {
        cout << "Try Again" << endl;

    }

}

void MilesPerGallon()
{
    int mpg;

    cout << "Enter MPG of vehicle" <<endl;
    cin >> mpg;

    if (mpg >= 50)
    {
        cout << "Nice Job";
    }
    else if (mpg < 50 && mpg >= 25)
    {
        cout << "Not great, but okay." <<endl;

    }
    else
    {
        cout << "So bad, so very, very bad." <<endl;
    }
    return;
}

void AdventureGame()
{
    char value;

    cout << "a. Fight the Villain b. Save the citizen c. Return to secret base" << endl;
```

```
132     cin >> value;
133
134     while ( value != 'c')
135     {
136         if( value == 'a')
137         {
138
139             cout << "You win!" <<endl;
140             return;
141
142         }
143
144         else if (value == 'b')
145         {
146
147             cout << "You saved the citizen"<< endl;
148             return;
149
150         }
151
152     }
153     if ( value == 'c')
154
155         cout << "Who will save the world?" << endl;
156         return;
157
158 }
159
160 void TreasureHunt()
161 {
162     string pos;
163
164     cout << "Enter tile color." <<endl;
165     cin >> pos;
166
167     while ( pos != "yellow")
168     {
169
170         if ( pos == "white")
171         {
172
173             cout << "Next clue is one forward" <<endl;
174             return;
175
176         }
177         else if ( pos == "blue")
178         {
179
180             cout << "Next clue one tile left" <<endl;
181             return;
182
183         }
184         else if ( pos == "black")
185         {
186
187             cout << "Next clue one tile right, forward 2 tiles, one tile right" <<endl;
188             return;
189         }
190         else if ( pos == "green")
191         {
192
193             cout << "Next clue is one tile right" <<endl;
194             return;
195
196         }
197     }
```

```
198
199     if (pos == "yellow")
200     {
201
202         cout << "Congrats! Treasure found." <<endl;
203         return;
204
205     }
206
207
208 }
209
210 int main(void)
211 {
212     PopulationCalc();
213
214     TotalTime();
215
216     CelciusCovert();
217
218     NumberInput();
219
220     MilesPerGallon();
221
222     AdventureGame();
223
224     TreasureHunt();
225
226 }
```