**Task 1:**

**Code:**

#include <iostream>

#include <string>

using namespace std;

//Part 1:

class tire{

public:

string name;

int width;

int diameter;

int ratio;

tire(){

}

tire(string n,int w,int d, int r){

this->name = n;

this->width = w;

this->diameter = d;

this->ratio = r;

}

};

//Part 2

class car{

public:

car(){

}

tire tires[4];

string make;

string model;

int year;

};

//Part 3

int main() {

car goodcar = car();

tire tire0 = tire("Cobra Radial G/T",195,13,70);

tire tire1 = tire("Cobra Radial G/T",195,13,70);

tire tire2 = tire("Enduro",175,13,70);

tire tire3 = tire("Enduro",175,13,70);

goodcar.make = "Fiat";

goodcar.model = "124 Spider";

goodcar.year = 1976;

goodcar.tires[0] = tire0;

goodcar.tires[1] = tire1;

goodcar.tires[2] = tire2;

goodcar.tires[3] = tire3;

}

**Task 2:**

#include <iostream>

#include <string>

#include <sstream>

#include <fstream>

#include <vector>

using namespace std;

class song{

public:

string location;

string name;

string artist;

int seconds;

song(){

}

song(string loc,string na,string ar, int secs){

this->location = loc;

this->name = na;

this->artist = ar;

this->seconds = secs;

}

void toString()

{

cout << this->location << " " << this->name << " " << this->artist << " " << this->seconds << endl;

}

};

int main() {

vector<song> Songs;

ifstream infile("songslist.txt");

string line;

string location, name, artist; int seconds;

int count =0;

while (getline(infile, line))

{

if (count%4==0)

{

location = line;

}

else if (count%4 == 1){

name = line;

}

else if (count%4 == 2){

artist = line;

}

else if (count%4 == 3){

stringstream geek(line);

geek >> seconds;

Songs.push\_back(song(location,name,artist,seconds));

}

count++;

}

Songs[0].toString();

Songs[1].toString();

Songs[2].toString();

}