

Answer on Question #55466, Programming / C++

```
#include <iostream>
```

```
#include <string>
```

```
using namespace std;
```

```
//class Car
```

```
class Car{
```

```
private:
```

```
    int year; //An int that holds the car's model year.
```

```
    string make; // A string object that holds the make of the car.
```

```
    int speed; // An int that holds the car's current speed. In addition, the  
class should have the following member functions.
```

```
    //Constructor The constructor should accept the car's year and make as  
arguments and assign these values to the object's year and make member  
variables.
```

```
    //The constructor should initialize the speed member variable to 0.
```

```
public:
```

```
    Car(int year,string make){
```

```
        this->year=year;
```

```
        this->make=make;
```

```
        this->speed=0;
```

```
    }
```

```
    //Accessors. Appropriate accessor functions should be created to allow  
values to be retrieved from an object's year, make, and speed member  
variables.
```

```
    int getYear(){
```

```

        return this->year;
    }
    string getMake(){
        return this->make;
    }
    int getSpeed(){
        return this->speed;
    }

```

//accelerate. The accelerate function should add 5 to the speed member variable each time it is called.

```

void accelerate(){
    this->speed+=5;
}

```

//brake. The brake function should subtract 5 from the speed member variable each time it is called.

```

void brake(){
    this->speed-=5;
}

};

```

//main method

```

int main(){
    Car newcar(2014,"Ford");
    cout<<newcar.getMake()<<" "<<newcar.getYear()<<" has speed
"<<newcar.getSpeed();
}

```

```
//Accelerate
cout<<"\nAccelerate\n";
newcar.accelerate();

cout<<newcar.getMake()<<" "<<newcar.getYear()<<" has speed
"<<newcar.getSpeed()<<" now\n";

cout<<"\nAccelerate\n";
newcar.accelerate();

cout<<newcar.getMake()<<" "<<newcar.getYear()<<" has speed
"<<newcar.getSpeed()<<" now\n";

cout<<"\nAccelerate\n";
newcar.accelerate();

cout<<newcar.getMake()<<" "<<newcar.getYear()<<" has speed
"<<newcar.getSpeed()<<" now\n";

cout<<"\nAccelerate\n";
newcar.accelerate();

cout<<newcar.getMake()<<" "<<newcar.getYear()<<" has speed
"<<newcar.getSpeed()<<" now\n";
```

```
//Brake
cout<<"\nBrake\n";
newcar.brake();

cout<<newcar.getMake()<<" "<<newcar.getYear()<<" has speed
"<<newcar.getSpeed()<<" now\n";

cout<<"\nBrake\n";
newcar.brake();

cout<<newcar.getMake()<<" "<<newcar.getYear()<<" has speed
"<<newcar.getSpeed()<<" now\n";
```

```
        cout<<"\nBrake\n";

        newcar.brake();

        cout<<newcar.getMake()<<" "<<newcar.getYear()<<" has speed
"<<newcar.getSpeed()<<" now\n";

        cout<<"\nBrake\n";

        newcar.brake();

        cout<<newcar.getMake()<<" "<<newcar.getYear()<<" has speed
"<<newcar.getSpeed()<<" now\n";


        //delay

        system("pause");

        return 0;

}
```