

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";



//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;
}
```