Inheritance_Example1

May 10, 2020

```
In [ ]: #include <iostream>
        #include <string>
        using std::string;
        using std::cout;

        class Vehicle {
        public:
            int wheels = 0;
            string color = "blue";
            string brand = "Honda";
            void Print() const
            {
                cout << "This " << color << " vehicle has " << wheels << " wheels!\n";
                cout << "The brand is " << brand << ".\n";
            }
        };

        class Car : public Vehicle {
        public:
            bool sunroof = false;
        };

        class Bicycle : public Vehicle {
        public:
            bool kickstand = true;
        };

        class Motorcycle : public Vehicle {
        public:
            float price = 9999;
        };

        int main()
        {
            Car car;
            car.wheels = 4;
            car.sunroof = true;
```

```cpp
        car.Print();
        if(car.sunroof){
            cout << "And a sunroof!\n";
        }
        Motorcycle motor;
        motor.wheels = 2;
        motor.color = "Red";
        motor.Print();
        cout<<"Price: $"<<motor.price<<".\n";
    }
```

Compile & Execute

Explain
Loading terminal (id_13wqor3), please wait...