```
#include <iostream>
using namespace std;
class Animal {
public:
  Animal(string name) : name(name) {
  cout << "Animal constructor called." << endl;</pre>
  }
  ~Animal() {
    cout << "Animal destructor called." << endl;</pre>
  }
  string name;
  void MakeSound() {
  cout << name << " makes a generic animal sound." << endl;
  }
};
class Dog: public Animal {
private:
  int age;
public:
  Dog(string name, int age) : Animal(name), age(age) {
     cout << "Dog constructor called." << endl;</pre>
  }
  int GetAge() {
     return age;
```

```
void SetAge(int newAge) {
    age = newAge;
  }
  void MakeSound() {
    cout << name << " barks." << endl;
  }
};
class Cat: public Animal {
public:
  Cat(string name) : Animal(name) {
    cout << "Cat constructor called." << endl;</pre>
  void MakeSound() {
    cout << name << " meows." << endl;
  }
};
int main() {
  Dog myDog("Buddy", 3);
  Cat myCat("Whiskers");
  cout << myDog.name << " is " << myDog.GetAge() << " years old." << endl;
  myDog.MakeSound();
  myCat.MakeSound();
  return 0;
```