

```
Philip Pesic
Week 14
November 20 2022
Week 14 Prog 3
       elephant
       mouse
Declare instances of each of the 4 different animals. C1, D1, E1, M1.
Write a switch statement that prints out the animal noise, depending on which animal is chosen.
       prompt the user for the type of animal, compare with switch statement, and print out
animal sound.
//
// main.cpp
// Week 14 Prog 3
//
// Created by Pippo Pesic on 11/17/22.
//
#include <iostream>
#include <string>
using namespace std;
```

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class Animal {
       string animalName;
       string sound;
public:
       Animal(string n, string s) {
       animalName = n;
       sound = s;
       }
       virtual void animalSound() {
       cout << animalName << " says " << sound << endl;</pre>
       };
};
class Cat : public Animal {
public:
       Cat (): Animal("cat", "meow") {}
};
class Dog : public Animal {
public:
       Dog(): Animal("dog", "bark") {}
```

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};
class Elephant : public Animal {
public:
      Elephant(): Animal("elephant", "squeal") {}
};
class Mouse: public Animal {
public:
      Mouse (): Animal("mouse", "squeak") {}
};
int main() {
      char animal;
      Cat c1;
      Dog d1;
      Elephant e1;
       Mouse m1;
      cout << "Select an Animal (C, D, E, M) - ";
      cin >> animal;
```

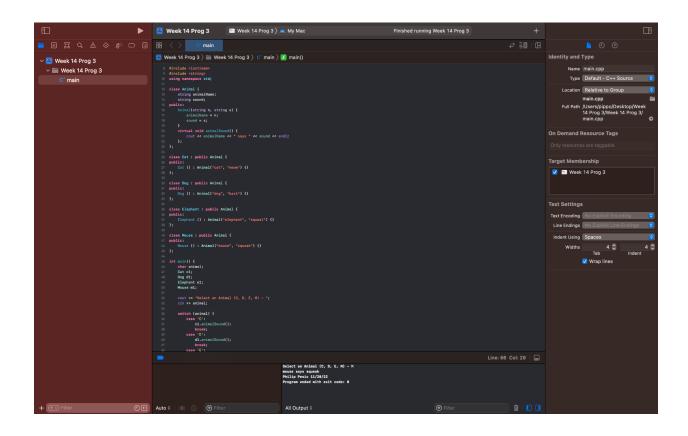
```
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       switch (animal) {
       case 'C':
       c1.animalSound();
       break;
       case 'D':
       d1.animalSound();
       break;
       case 'E':
       e1.animalSound();
       break;
       case 'M':
       m1.animalSound();
       break;
       default:
       cout << "Invalid Animal" << endl;</pre>
       }
       cout << "Philip Pesic 11/20/22" << endl;
       return 0;
}
```

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I learned: how to write several polymorphic functions from one base