Practice Problem 6

Define three child classes of Mammal named Dolphin, Platypus and Human, and one child class of Human named CSStudent. Override methods and instance variables to correctly model each class, as described below, so that the driver program included works correctly.

- A Dolphin does not lay eggs, and is often overheard saying "ak, ak, ak, ak"
- A Platypus lays eggs, and is often overheard saying "errrr"
- A Human does not lay eggs, and is often overheard saying "I'll take a grande latte with a double-shot of espresso"
- A CSStudent does not lay eggs, and is often overheard saying "I love programming!"

```
class Mammal:
    def init (self, sound):
        self.sound = sound
    def laysEqqs(self):
        return False
    def speak(self):
        print( self.sound )
# Define all child classes here
class Dolphin(Mammal):
    def __init__(self):
        Mammal. init (self, "ak ak ak")
class Platypus (Mammal):
    def init (self):
        Mammal.__init (self, "errr")
    def laysEggs(self):
       return True
class Human (Mammal):
    def init (self):
        Mammal. init (self, "I'll take a grande latte with a double-
shot of espresso")
class CSStudent(Human):
    def __init__(self):
        Human.__init__(self)
self.sound = "I love programming"
# Driver program
d = Dolphin()
d.speak()
print( d.laysEggs() )
```

```
p = Platypus()
p.speak()
print( d.laysEggs() )

h = Human()
h.speak()
print( h.laysEggs() )

s = CSStudent()
s.speak()
print( s.laysEggs() )
```