第10周上机题

1. 基础训练题（同学们可以在完成下来题目测试的基础上增加其他功能）
2. 测试P131页例题8-2.

（**运行结果截图放此**）

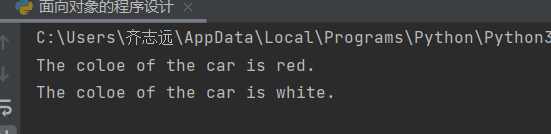
class Car:  
 price = 150000  
 def run(self):  
 print('车在行驶中......')  
Car\_1 = Car()  
Car\_1.run()  
print('车的价格是:',Car\_1.price)



1. 测试P132页例题8-3，

（**运行结果截图放此**）

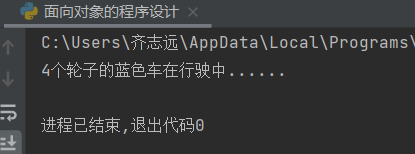
class Car:  
 def colour(self,col):  
 self.col = col  
 def show(self):  
 print('The coloe of the car is %s.'%self.col)  
car\_1 = Car()  
car\_1.colour('red')  
car\_2 = Car()  
car\_2.colour('white')  
car\_1.show()  
car\_2.show()



3、P133页例题8-4，

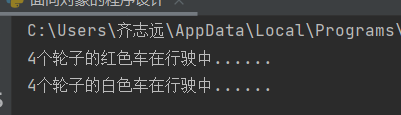
（**运行结果截图放此**）

class Car:  
 def \_\_init\_\_(self):  
 self.wheelNum = 4  
 self.colour = '蓝色'  
  
 def run(self):  
 print('{}个轮子的{}车在行驶中......'.format(self.wheelNum, self.colour))  
  
  
BMW = Car()  
BMW.run()



4、P133页例题8-5，

class Car:  
 def \_\_init\_\_(self,wheelNum,colour):  
 self.wheelNum = wheelNum  
 self.colour = colour  
 def run(self):  
 print('{}个轮子的{}车在行驶中......'.format(self.wheelNum,self.colour))  
BMW = Car(4,'红色')  
Audi = Car(4,'白色')  
BMW.run()  
Audi.run()

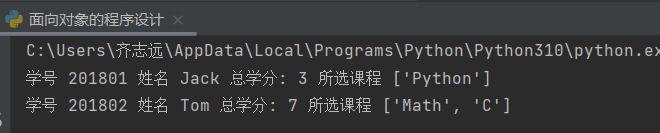


（**运行结果截图放此**）

5、P134页例题8-6，

（**运行结果截图放此**）

class Stu:  
 def \_\_init\_\_(self,num,name,credit,course):  
 self.num = num  
 self.name = name  
 self.credit = credit  
 self.course = course  
 def choose(self,c):  
 self.credit+=c.credit  
 self.course.append(c.name)  
class Cou:  
 def \_\_init\_\_(self,num,name,credit):  
 self.num = num  
 self.name = name  
 self.credit = credit  
stu\_1 = Stu('201801','Jack',0,[])  
stu\_2 = Stu('201802','Tom',3,['Math'])  
cou\_1 = Cou('01','Python',3)  
cou\_2 = Cou('02','C',4)  
stu\_1.choose(cou\_1)  
stu\_2.choose(cou\_2)  
print('学号',stu\_1.num,'姓名',stu\_1.name,'总学分:',stu\_1.credit,'所选课程',stu\_1.course)  
print('学号',stu\_2.num,'姓名',stu\_2.name,'总学分:',stu\_2.credit,'所选课程',stu\_2.course)



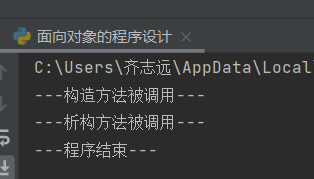
6、P135页例题8-7，

（**运行结果截图放此**）

class Animal():  
 def \_\_init\_\_(self):  
 print('---构造方法被调用---')  
 def \_\_del\_\_(self):  
 print('---析构方法被调用---')  
dog = Animal()  
print('---程序结束---')



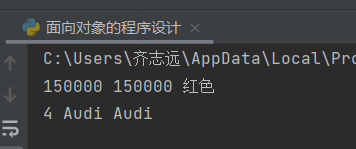
class Animal():  
 def \_\_init\_\_(self):  
 print('---构造方法被调用---')  
 def \_\_del\_\_(self):  
 print('---析构方法被调用---')  
dog = Animal()  
del dog  
print('---程序结束---')



7、P136页例题8-8，

（**运行结果截图放此**）

class Car:  
 price = 150000  
 def \_\_init\_\_(self,colour):  
 self.colour = colour  
car\_1 = Car('红色')  
print(car\_1.price,Car.price,car\_1.colour)  
Car.name = 'Audi'  
car\_1.wheelNum = 4  
print(car\_1.wheelNum,car\_1.name,Car.name)



8、P137页例题8-9，

（**运行结果截图放此**）

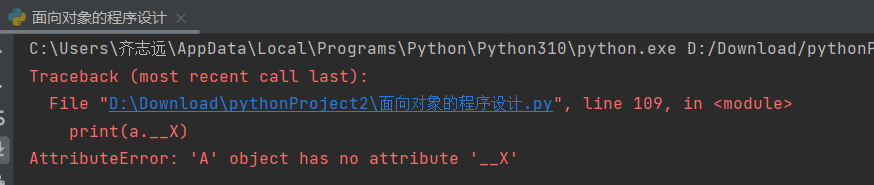
class Car:  
 price = 150000  
 def \_\_init\_\_(self):  
 self.price = 100000  
car\_1 = Car()  
print(car\_1.price,Car.price)



9、P138页例题8-10，

（**运行结果截图放此**）

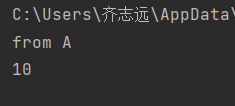
class A:  
 def \_\_init\_\_(self):  
 self.\_\_X = 10  
 def \_\_foo(self):  
 print('from A')  
a = A()  
print(a.\_\_X)  
a.\_\_foo()



10、P139页例题8-11，

（**运行结果截图放此**）

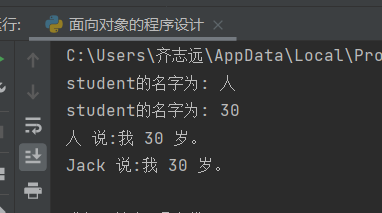
class A:  
 def \_\_init\_\_(self):  
 self.\_\_X = 10  
 def \_\_foo(self):  
 print('from A')  
 def bar(self):  
 self.\_\_foo()  
 return self.\_\_X  
a = A()  
b = a.bar()  
print(b)



11、P140页例题8-12，

（**运行结果截图放此**）

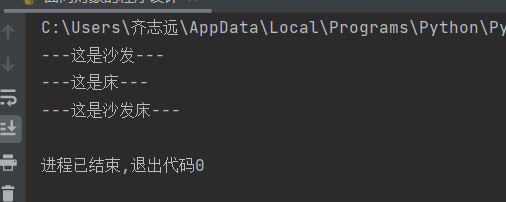
class Person:  
 name = '人'  
 age = 30  
 def speak(self):  
 print('%s 说:我 %d 岁。'%(self.name,self.age))  
class Stu(Person):  
 def setName(self,newName):  
 self.name = newName  
 def s\_speak(self):  
 print('%s 说:我 %d 岁。'%(self.name,self.age))  
student = Stu()  
print('student的名字为:',student.name)  
print('student的名字为:',student.age)  
student.s\_speak()  
student.setName('Jack')  
student.speak()



12、P141页例题8-13，

（**运行结果截图放此**）

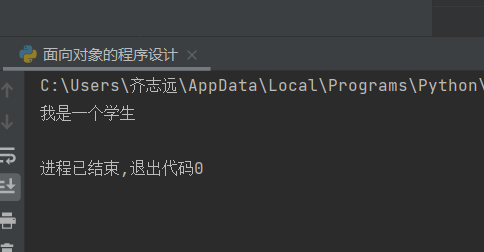
class Sofa:  
 def printA(self):  
 print('---这是沙发---')  
class Bed:  
 def printB(self):  
 print('---这是床---')  
class Sofabed(Sofa,Bed):  
 def printC(self):  
 print('---这是沙发床---')  
obj\_C = Sofabed()  
obj\_C.printA()  
obj\_C.printB()  
obj\_C.printC()



13、P142页例题8-14，

（**运行结果截图放此**）

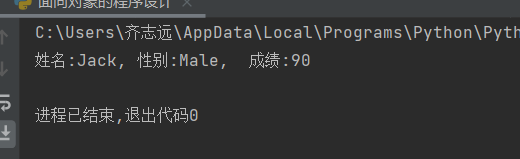
class Person:  
 def speak(self):  
 print('我是一个人类')  
class Stu(Person):  
 def speak(self):  
 print('我是一个学生')  
student = Stu()  
student.speak()



14、P143页例题8-15，

（**运行结果截图放此**）

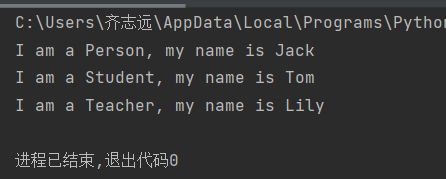
class Person():  
 def \_init\_(self, name, sex):  
 self.name = name  
 self.sex = sex  
class Stu(Person):  
 def \_\_init\_\_(self, name, sex, score):  
 super().\_init\_(name, sex)  
 self.score = score  
student = Stu('Jack','Male',90)  
print("姓名:%s, 性别:%s, 成绩:%s" % (student.name, student.sex, student.score))



15、P143页例题8-16，

（**运行结果截图放此**）

class Person:  
 def \_\_init\_\_(self, name, gender):  
 self.name = name  
 self.gender = gender  
 def who(self):  
 print('I am a Person, my name is %s'% self.name)  
  
class Student(Person):  
 def \_\_init\_\_(self, name, gender, score):  
 super().\_\_init\_\_(name, gender)  
 self.score = score  
 def who(self):  
 print('I am a Student, my name is %s'% self.name)  
  
class Teacher(Person):  
 def \_\_init\_\_(self, name, gender, course):  
 super().\_\_init\_\_(name, gender)  
 self.course = course  
 def who(self):  
 print('I am a Teacher, my name is %s'% self.name)  
  
def fun(x):  
 x.who()  
p = Person('Jack','Male')  
s = Student('Tom','Male', 88)  
t = Teacher('Lily','Female','English')  
  
fun(p)  
fun(s)  
fun(t)



16、P146页例题8-19，

（**运行结果截图放此**）

class Cat:  
 role ='cat'  
 def \_\_init\_\_(self, name, breed, aggressivity, life\_value):  
 self.name = name  
 self.breed = breed  
 self.life\_value = life\_value  
 self.aggressivity = aggressivity  
 def attack(self,dog):  
 dog.life\_value -= self.aggressivity  
 def eat(self):  
 self.life\_value += 50  
 def die(self):  
 if self.life\_value <= 0:  
 print(self.name,'已被杀死!')  
 else:  
 print(self.name,'的生命值还有',self.life\_value)  
class Dog:  
 role ='dog'  
 def \_\_init\_\_(self, name, breed, aggressivity, life\_value):  
 self.name = name  
 self.breed=breed  
 self.aggressivity = aggressivity  
 self.life\_value = life\_value  
 def bite(self,cat):  
 cat.life\_value -= self.aggressivity  
 def eat(self):  
 self.life\_value += 30  
 def die(self):  
 if self.life\_value <= 0:  
 print(self.name,'已被杀死!')  
 else:  
 print(self.name,'的生命值还有',self.life\_value)  
cat\_1 = Cat('Mily','波斯猫',30,1500)  
dog\_1 = Dog('Lucky','哈士奇',50,900)  
cat\_1.die()  
dog\_1.die()  
print('-----开始战斗-----')  
cat\_1.attack(dog\_1)  
dog\_1.bite(cat\_1)  
cat\_1.die()  
dog\_1.die()  
for i in range(29):  
 cat\_1.attack(dog\_1)  
dog\_1.die()  
cat\_1.eat()  
cat\_1.die()

