Classes exercises

Exercise 1

Problem

Write a Python class named Student with two attributes: student_id, student_name. Add a new attribute: student_class. Create a function to display all attributes and their values in the Student class.

Solution

```
class Student:
    def __init__(self, _id, name):
        student_id = _id
        student_name = name
    def display(self):
        print(f'Student id: {self.student_id}\nStudent Name: {self.student_name}')

s = Student(123, "carlos")
s.display()
```

Exercise 2

Problem

Write a Python class named Circle constructed from a radius and two methods that will compute the area and the perimeter of a circle.

Solution

```
class Circle():
    def __init__(self, r):
        self.radius = r

    def area(self):
        return self.radius**2*3.14

    def perimeter(self):
        return 2*self.radius*3.14

NewCircle = Circle(8)
print(NewCircle.area())
print(NewCircle.perimeter())
```

Exercise 3

Problem

Define a class called Lunch.Its **init**() method should have two arguments:selfanf menu.Where menu is a string. Add a method called menu_price.It will involve a ifstatement:

if "menu 1" print "Your choice:", menu, "Price 12.00", if "menu 2" print "Your choice:", menu, "Price 13.40", else print "Error in menu". To check if it works define: Paul=Lunch("menu 1") and call Paul.menu_price().

Solution

```
class Lunch(object):
    def __init__(self,menu):
        self.menu=menu

    def menu_price(self):
        if self.menu="menu 1":
            print "Your choice:", menu, "Price 12.00"
        elif self.menu=="menu 2":
            print "Your choice:", menu, "Price 13.40"
        else:
            print "Error in menu"

Paul=Lunch("menu 1")
Paul.menu_price()
```