Problem Wk.1.2: Nano Quiz

Due date: 2/3, 9:50am

Do all parts of this problem and then click Submit. There is only one Submit button, you should only do that when you are finished with all the parts of the problem.

There is a limited checking budget for this problem (20 checks).

Do not try to start another log in, you will lose what you typed.

You have 15 minutes. You must click submit before:

2/3, 9:50am

Part 1: Transcript

Below is a transcript of a session with the Python shell. This means that we are doing each of the statements in sequence, so for example, previous definitions and assignments are still in effect.

Provide the value of the expressions being evaluated and the type of the resulting value.
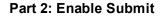
- If evaluating an expression would cause an error, select noneType and write `error` in the box.
- If the value of an expression is a procedure or class, select the appropriate type and also write the name of the procedure or class in the box, as appropriate.
- If the value is an instance, write the Class name in the box. (Note that this is a little different from instructions in some earlier problems.)

We encourage you to draw a diagram of the instances and their attribute values and update it as you work your way through the transcript.

1.
```
>>> class Animal:
      isDog = False
      def __init__(self, name, age):
        self.name = name
        self.age = age
      def birthday(self):
        self.age = self.age + 1
      def inDogYears(self):
        if not self.isDog:
          return self.age * 7
        else:
          return self.age

>>> Animal
```

[---- ▾] [   ]

2.
```
>>> snuffy = Animal('Aloysius Snuffleupagus', 25)
>>> garfield = Animal('Garfield', 32)
>>> george = Animal('Curious George', 70)
>>> snoopy = Animal('Snoopy', 60)
>>> garfield.birthday
```

| ---- ▼ | [_____] |

3. `>>> snoopy.inDogYears()`

| ---- ▼ | [_____] |

4. `>>> snoopy.birthday()`
   `>>> snoopy.inDogYears()`

| ---- ▼ | [_____] |

5. `>>> snoopy.isDog = True`
   `>>> snoopy.inDogYears()`

| ---- ▼ | [_____] |

6. `>>> snuffy.isDog = False`
   `>>> Animal.isDog = True`
   `>>> snuffy.inDogYears()`

| ---- ▼ | [_____] |

7. `>>> george.inDogYears()`

| ---- ▼ | [_____] |

(Check) (Save)

Part 2: Enable Submit

Current time is: **3/1/2011, 9:13pm**

Click Submit before: **end of clas**

The Check button will update the current time.

Type the word Done below

[_____]

and click Submit.

If this problem is submitted past the due time, this subproblem will be marked incorrect.

(Check)

When you are finished with the problem... (Submit)

6.01SC Introduction to Electrical Engineering and Computer Science
Spring 2011