Sample Midterm #2

1. Evaluate each expression. If any cannot be evaluated, say why.

```
a. 3 + 5.0
b. "hello" + "goodbye"
c. 7 * True
d. 6 / "spam"
e. True and not False or True
f. "monty" <= "python"</li>
```

- 2. Convert the following into Python:
 - a. "hello" follows "goodbye" in the character ordering of the computer
 - b. The value of the variable *answer* is true or the value of the variable y is less than 126
 - c. The function *gleep* is called with an argument of -21
- 3. Convert the following into a "for" loop:

```
i = 1
while i < 10:
    print i * "x"
    i += 3</pre>
```

4. What does the following function do when given a string as the first argument and a string containing only one character as the second argument?

```
def f(s, c):
    i = 0
    while i < len(s):
        if s[i] == c:
            return i
        i += 1
    return -1</pre>
```

5. In the following program:

```
try:
    x = input("Enter a number: ");
    y = 1 / x;
except ZeroDivisionError:
    print "Nice try: you divided by 0"
except SyntaxError:
    print "What on earth did you type?"
except NameError:
    print "I have no clue what that name refers to"
except TypeError:
    print "I don't handle conversions well today"
else:
    print "The reciprocal of", x, "is", y;
```

please show five different inputs, each of which will execute a different print statement in the program.

6. What does the following program print?

```
def a(hi):
    hi = 7
    return hi + 3

def main():
    hi = 8
    lo = 3
    print hi, lo
    lo = a(hi)
    print hi, lo

main()
```