Problems 1-10, multiple choice (4 points each).

**Problem 1**

```python
bool1 = True and False
bool2 = 8/3 == 8%3
print(bool1 or bool2)
```

a. SyntaxError: invalid syntax  
b. False False  
c. True  
d. False  
e. none of the above

**Problem 2**

```python
littlePigCount = 3
pigs = ['first', 'second', 'third']
character = pigs[littlePigCount]
print(character)
```

a. pigs  
b. third  
c. first, second, third  
d. Index Error: list index out of range  
e. none of the above

**Problem 3**

```python
nested = [['list0'], 1, 'two', 1+2]
print(nested[0:1])
```

a. NameError: name 'list0' is not defined  
b. list0  
c. 'list0'  
d. [['list0'], 1]  
e. none of the above
Problem 4

cakes = ['angel', 'devil', 'pound', 'cheese', 'birthday']
byIngredient = cakes[:4]
byOccasion = cakes[-1]
print(byIngredient + byOccasion)

a. SyntaxError: invalid syntax
b. TypeError: can only concatenate list (not "str") to list
c. angel devil pound cheese birthday
d. ['angel', 'devil', 'pound', 'cheese', 'birthday']
e. none of the above

Problem 5

import turtle
pond = turtle.Screen()
box = turtle.Turtle()
box.width(20)
box.fd(100)

a. a line of width 20 and length 100
c. AttributeError: 'Turtle' object has no attribute 'fd'
d. TurtleError: module turtle has no method Turtle
e. none of the above

Problem 6

def testItem(pivot, item):
    if item < pivot:
        return '<'
    if item == pivot:
        return '=='
    else:
        return '>
print(testItem(1, 2))

a. 1, 2
b. >
c. SyntaxError: invalid 'if' statement
d. NameError: name 'testItem' is not defined
e. none of the above
Problem 7

thirsty = False
hungry = True
if thirsty:
    print('drink')
else:
    print('sip')
if hungry:
    print('gorge')
else:
    print('nibble')

a. sip
b. sip
    gorge
c. SyntaxError: multiple 'if' in statement
d. '' (the empty string)
e. none of the above

Problem 8

vowels = 'aeiou'
symmetrical = 'ilovwx'
for letter in vowels:
    if letter in symmetrical:
        print(letter)

a) SyntaxError: 'if' inside 'for'
b) i
   |   i
   o   o
   v   v
   w   w
c) i
   o

d) nothing will be printed
e) none of the above
Problem 9

```python
for i in range(1):
    print(i)
```

a) i  
b) i  
c) 0  
d) 0  
e) none of the above

Problem 10

```python
def count(collection):
    for i in collection:
        return(i)
print(count('dracula'))
```

a) c  
b) dracula  
c) d  
d) 7  
e) none of the above
Programming problems 11-13 (20 pts each).

Problem 11

Part A: 10 points

Write a function named dashedLine(). The function dashedLine() takes four parameters:

1. a turtle
2. an integer, length, that is the length of each dash in the line
3. an integer, space, that is the space between dashes
4. an integer, reps, that is the number of dashes in the line

For example, if length = 15, space = 10 and reps = 5, the following is correct output

---

Part B: 10 points

Write code that calls dashedLine(), using the parameters in the example in part A. (Hint: before calling the function, you must import the turtle module and create a turtle.)

Problem 12

Write a function named compare() that tests the relative size of two objects and returns the result. The function compare() takes two parameters:

1. thingOne
2. thingTwo

The function compare() should return ‘<’ if thingOne is less than thingTwo, ‘>’ if thingOne is greater than thingTwo, and ‘==’ in all other cases. Your function may assume that the two parameters are capable of being compared. For example, the following would be correct output:

```python
>>> compare(0, 1)
'<'
>>> compare('abc', 'a')
'>'
>>> compare([], [])
'=='
```
Write a function named `introduce()`. The function `introduce()` should twice ask for the name of a person, and then introduce each of the two people to the other. The function `introduce()` takes one parameter: a string named `introduction`.

For example, the following would be correct input and output:

```python
>>> introduce('meet')
What's your name? Alphonse
And what's your name? Gaston
Alphonse meet Gaston
Gaston meet Alphonse
```