

Aims

In this computing tutorial you need to find the output generated by some Python programs. This will probably not take all of the class time. Use this opportunity to ask your tutor any questions that you may have about any component of the course.

1. Assessment Question (1.5%): Python output.

Your answer to Parts (a) and (b) of this question will contribute 1.5% towards your final assessment for SCIE1000. **To receive these marks, you must show your answer to a tutor during your tutorial.**

(a) (Final exam, 2008. Worth 4 marks, so about 4 minutes to work.) Write down all of the output generated by the following Python code.

```
i = 6
while i < 45:
    print i
    if i>20 and i<30:
        print 'hello', i, 'sailors'
        i = i + 3
        i = i * 2
print i
```

(b) (Final exam, 2008. Worth 3 marks, so about 3 minutes to work.) Write down all of the output generated by the following Python code.

```
i = 0
j = 2
result = zeros(3)
print i,j
while i <= 2:
    result[i] = j
    j = j + 1
print 'end:', result
```

2. Write down all of the output generated by the following Python code.

```
a=zeros(10)
t = 1
while t < 10:
    a[t] = t*t
    if (t > 3) and (t < 6):
        t = t + 1
    else :
        print "t =", t
        t = 2+t
print a
```

The end