Tutorial HW1

```
2 + 5
```

```
7
```

```
range(10)
```

```
[0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
```

```
range(11,16)
```

```
[11, 12, 13, 14, 15]
```

```
for j in range(1,8):
    print j
```

```
1
2
3
4
5
6
7
```

```
4 == 4  #To test for equality, use a double equal sign
```

```
True
```

```
"abc" == "def"   #strings can also be tested for equality
```

```
False
```

```
x = 4   #To assign a value to a variable, use a single equal sign
print str(x)  #  str(x) converts an integer to a string
```

```
4
```

```
if (4 < 2):
    print "This block is executed if 4 < 2."
    print "Because 4 is larger than 2, this block is not executed."
else:
    print "This block is executed otherwise."
    print "Because 4 < 2 is false, this is printed"
```

```
This block is executed otherwise.
Because 4 < 2 is false, this is printed
```

```
print "The following are all integers j in 1..99 that are rel. prime
to 6:"
num_rel_prime = 0
for j in range(1,100):
    if (gcd(j,6) == 1):
        print str(j)
        num_rel_prime = num_rel_prime + 1
print "There are " + str(num_rel_prime) + " such numbers."
```

```
The following are all integers j in 1..99 that are rel. prime to 6:
```

```
1
5
7
11
13
17
19
23
25
29
31
35
37
41
43
47
49
53
55
59
61
65
67
71
73
77
79
83
85
89
91
95
97
There are 33 such numbers.
```