# 1811/2807/7001ICT Programming Principles

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# 14 pass, break, continue

These three control statements are used in the bodies of other control statements to modify their normal behaviour.

### 14.1 Null operation – pass

The pass statement, for example:

pass

does nothing. Use it as a placeholder where a statement is required, but nothing is to be done.

For example, in a selection, sometimes one of the alternative situations requires no action, but to show it has been considered, leave it in with pass as the action.

```
if something needs doing:
    do it
else:
    pass
```

#### 14.2 break statements

The break statement terminates the execution of the loop body it occurs in, and the loop itself.

This is mostly useful in for loops that achieve their aim before iterating through their entire sequence.

A break statement should be placed in a selection inside the loop.

```
# file: str2.py
# How many characters in a string come before
# the first period.
```

```
s = "blah.blah.blah"
n = 0
for c in s:
   if c == '.':
      break
   else:
     n += 1
print(n)
$ python3 str2.py
4
```

#### 14.3 continue statements

continue statements terminate the current execution of the loop body it occurs in, but not the loop.

So it skips to the next iteration.

Much less frequently used than breaks, they should also occur inside selections.

## **Section summary**

This section covered:

• the pass, break, and continue statements.