COMP10020 Introduction to Programming II Python Flow Control

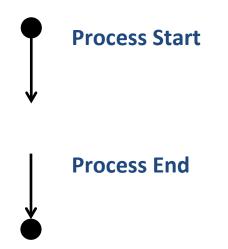
Dr. Brian Mac Namee

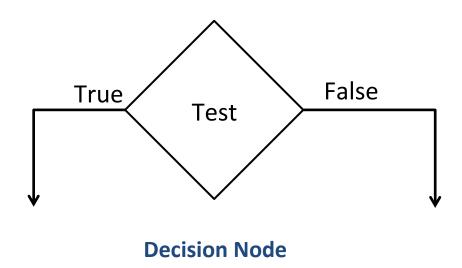
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Flow diagrams





Code

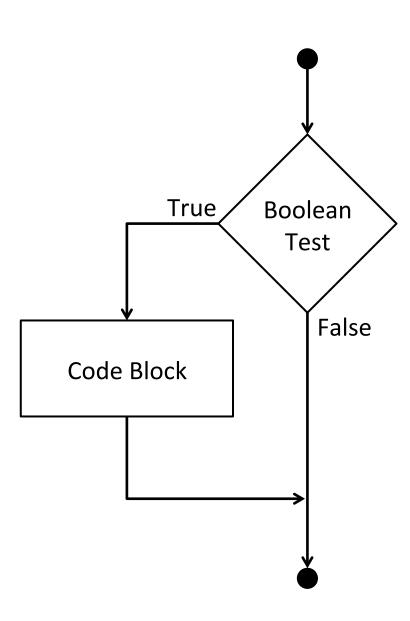
Task Block

IF STATEMENTS

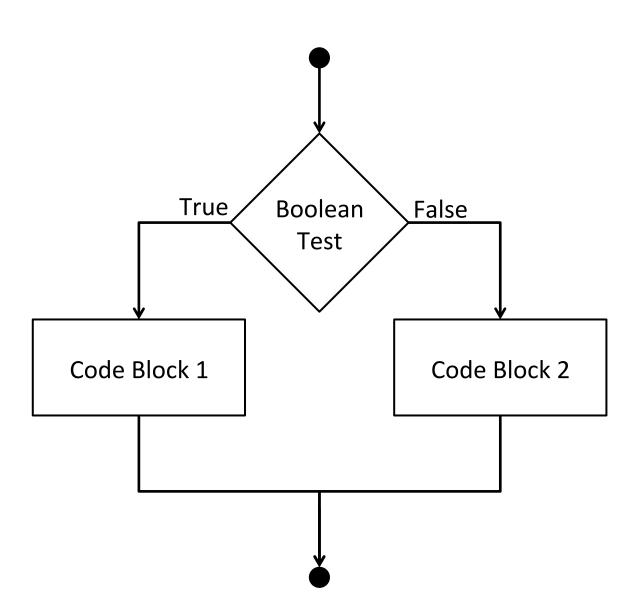
if Statements

These statements select code to execute based on the value of a specified boolean expression - i.e. is the expression True or False

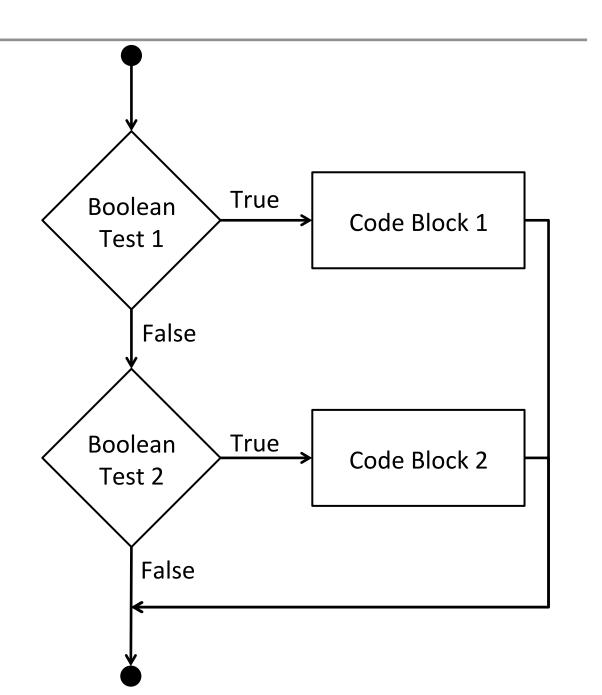
if Statements



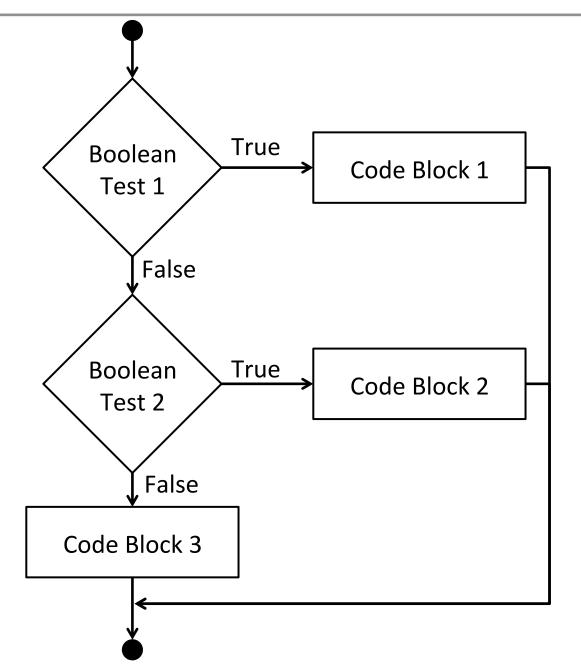
if-else Statements



if-elif Statements



if-elif-else Statements

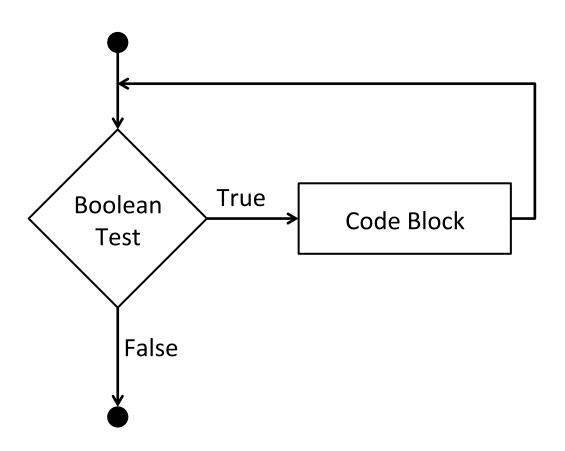


WHILE LOOPS

while Loops

While loops repeatedly execute a block of code as long as a specified boolean expression remains True

while Loops



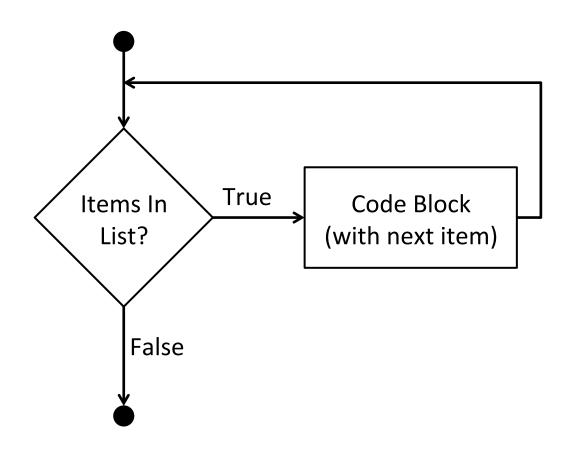
FOR LOOPS

for Loops

for loops iterate over a sequence and repeatedly apply a block of code to each item in the sequence

They can be applied to the items in any ordered sequence or other iterable object - e.g. a list, a tuple, a set, or the output of a function.

for Loops



SUMMARY

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Flow control is at the heart of writing interesting programs

Python offers the standard flow control constructs that are present in most programming languages