

5.1: Types of Loop within Programming

In this topic, we will be focussing on the following learning outcome for this week:

* Highlight the types and uses of iteration-based control structures within programming

You will have the following learning opportunities:

* To investigate the different types of iteration within Programming

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In this section, you will be engaging in collaboration and investigation learning activities

Last week, we looked at control structures and defined three different types. You have now utilised both sequential and iteration. In this week, we will be looking at the final type of control structure: iteration.

In your groups, create a Sway document which will discuss the various types of iteration and looping which are available within programming.

Your Sway document should start with what we mean by iteration or looping in programming. It should set the scene for what you will discuss in the rest of the document.

You should include the following loop types:

* For,
* For-each,
* While, and
* Do-while.

For each loop you should include the following information:

* Purpose of each loop
* Examples of use
* Where the Boolean condition is checked
* A diagram to show how the loop works

As long as you include the key information associated with each loop, you can set up your Sway in whatever way works best for you.

At the beginning of the first timetabled hour of the module will involve you giving and receiving feedback on the Sways produced by your seminar group. Please make sure that your Sway is ready to be shared within the group – you will not be required to present your Sway, so it should be self- explanatory.