

4.4: Types of Selection Control Structures in Programming

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

* Give examples of using a variety of different selection-based control structures

You will have the following learning opportunities:

* To outline the types of selection control structure both in programming and in Python



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

In programming, there are two main types of selection control structure: if statements (which have a number of different varieties) and switch statements. In this activity, you will be doing some research to answer the following questions, which will help you to develop a “fact sheet” relating to selection control structures. There are also a couple of questions which are designed to re-iterate and revise topics we have just discussed.

Answer the following questions to build yourself a fact sheet about selection control structures.

1. What are selection control structures?
2. Why are selection control structures useful?
3. What is a conditional statement?
4. What data type does a conditional have to be?
5. What is an if statement?
6. How are if statements represented in pseudocode?
7. How are conditional statements used within if statements?
8. What is an else statement?
9. In terms of programming, what is a switch statement?
10. What is the purpose of a case?
11. What is the default case?
12. Why is the default case useful?