Starting up the QSEE tool

- Click on QSEE SuperLite icon
- Create a new project
- Click on flow chart

You should see

**Start**

This is used to signify the start of the routine.

The symbol

![Symbol X=1](image)

Is use to add a process such as setting a value x to 1, performing a calculation - a process

The symbol

![Symbol X>=1](image)

Is used to represent input and output activities.

The symbol

![Symbol While X>9](image)

Is used for decisions such if this is true to this else do that, or while this condition is true to the code that follows

Finally, we signify the end of a routine by:

**Stop**
To join these symbols together: click on the block that is at the start of the link and the right-click on the item, click on the Add flow link option (Figure 1) and then click on the item at the end of the link (see figure 2).
Figure 2

Task 1

Describe what the following does:

Start

\(X=1\)

While \(X>9\)

No

Yes

Print the value stored in \(X\) on

Add 2 to the value stored in \(X\)

Stop

Task 2

Build the flowchart above.

Hints:

- You can get the right-angle links using shift and right-mouse button (have a go and see how you get on).
- The yes and no are carried out by double-clicking on the link, type in the message in the text box that appears, and after pressing ok, the text should appear on the screen. You might wanted to move it click on the text and then move it to where you want.

Once you have built the flowchart click on the green tick this tests to see if there is a missing link.
Task 3
What do the following routines do?

(i)

Start

display
Enter radius

input radius

circum=2*pi*radius

display
circum

Stop

(ii)

Start

Enter age in years

If age >=13

Print Might be a teenager

If age <20

Print Is a teenager

Do you want to enter a new age

Print Not a teenager

No

Yes

Stop
Task 4
Build flowcharts for the following the:
- The rectangular room from (week 2).
- The robot tracing the letter C (from week 4)
- The robot going around the room (from week 4)