**Discussion 1**

For each of the following, discuss what the outcome will be if they are executed by a Python interpreter (e.g.IDLE3) in the sequence shown.

**c = 10**

**7 = a (Syntax Error)**

**a = d (Error, d undefined)**

**a = c + 1**

**a + c = c (Syntax Error)**

**3 + a**

**7up = 10 (Syntax Error)**

**import = 1003 (Syntax Error)**

**b = math.pi \* c**

**int = 500**

**a \*\* 3**

**a,b,c = c,1,a**

**b,c,a = a,b (Error, missing an expression for c)**

**c = b = a = 7**

**print( A ) (Error, A undefined)**

**print( "b\*b + a\*a = c\*c" )**

**print( ‘A’ )**

**print( "c" = 1 ) (Syntax Error)**

**Discussion 2**

Write a program that asks the user for the number of boys and that of girls in a class. The program should calculate and display the percentage of boys and girls in the class. A sample run is as follows:

**Enter the number of boys: 65**

**Enter the number of girls: 77**

**Boys: 46%**

**Girls: 54%**

1. Design the algorithm and use flowchart to present.
2. Write the Python program.