Programming and Problem Solving through Python Language
O Level / A Level

Chapter -1 : Introduction to Programming

What is a flowchart

A flowchart is a pictorial representation of the steps that are involved in the procedure.
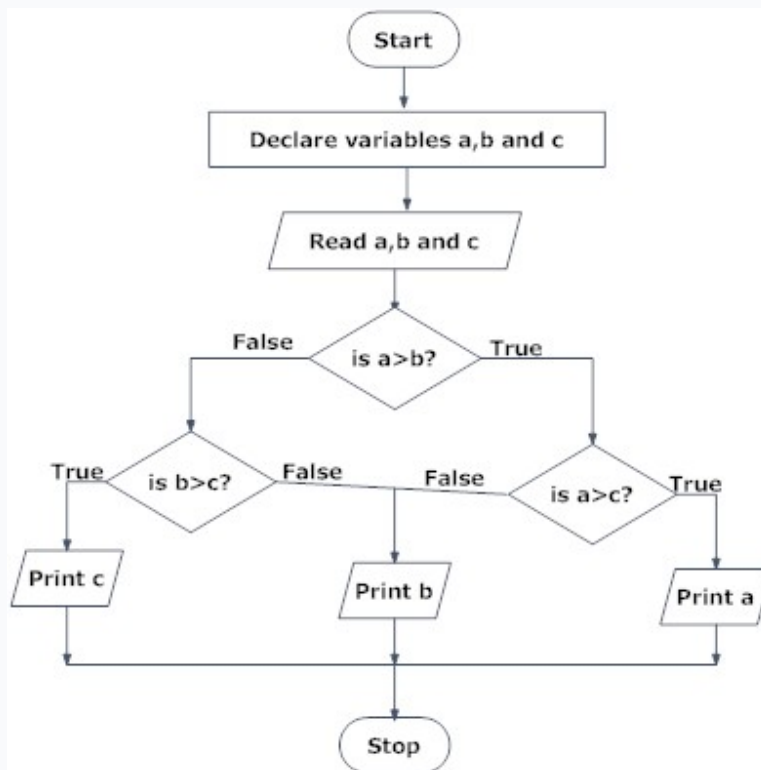
A flowchart also shows the logical sequence in which the steps are to be performed.

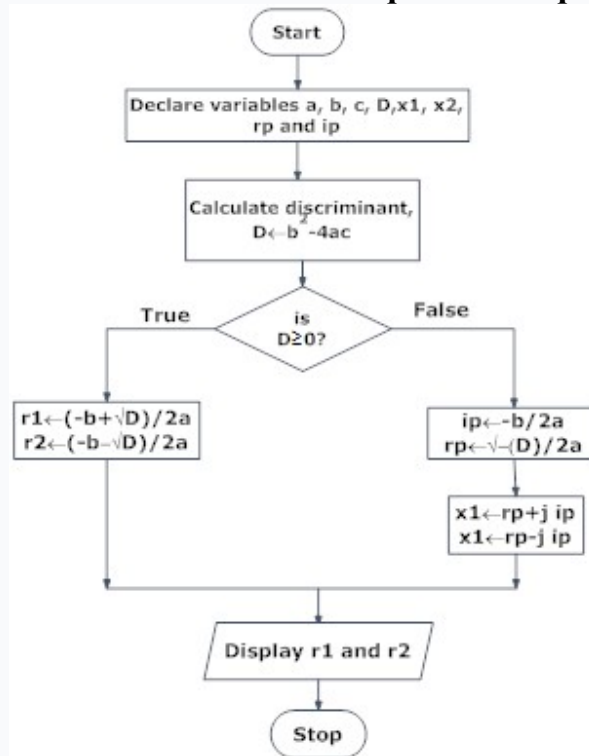A flowchart consists of boxes called the symbols and arrows called the flow lines.

The box depicts the process and the flow line indicates the next step to be performed.
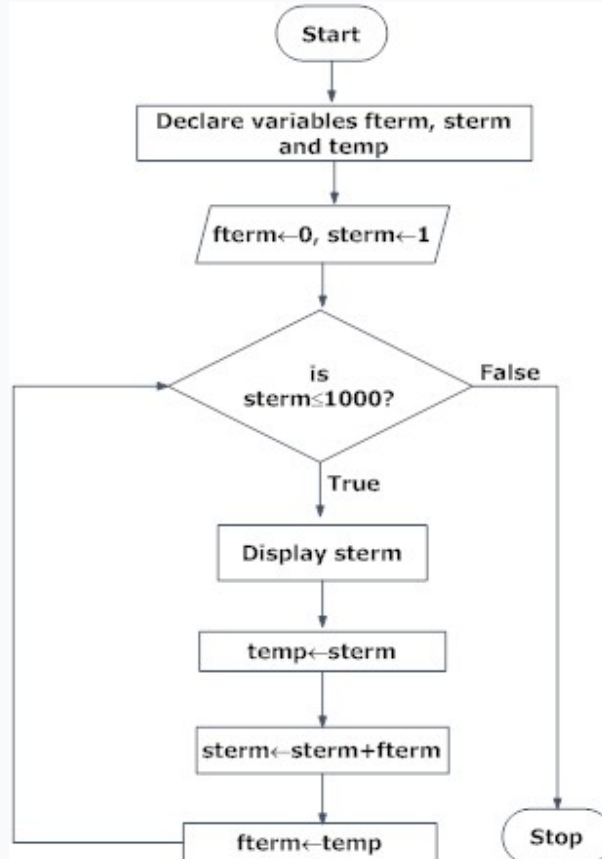
Examples of FlowChart

2. Draw flowchart to find the largest among three different numbers entered by user.

3. Draw a flowchart to find all the roots of a quadratic equation $ax^2+bx+c=0$

Start

Declare variables a, b, c, D, x1, x2, rp and ip

Calculate discriminant,
$D \leftarrow b^2 - 4ac$

is D≥0?

True

False

r1←(-b+√D)/2a
r2←(-b-√D)/2a

ip←-b/2a
rp←√(D)/2a

x1←rp+j ip
x1←rp-j ip

Display r1 and r2

Stop

4. Draw a flowchart to find the Fibonacci series till term≤1000.

Start

Declare variables fterm, sterm and temp

fterm←0, sterm←1

is sterm≤1000?

False

True

Display sterm

temp←sterm

sterm←sterm+fterm

fterm←temp

Stop

Assignment

Q.1 Draw an flowchart for printing first 10 natural number.

Q.2 Draw an flowchart for printing first 10 odd number.

Q.3 Draw an flowchart for printing first 10 even number.

Q.4 Draw an flowchart for printing first 10 natural number in reverse order.