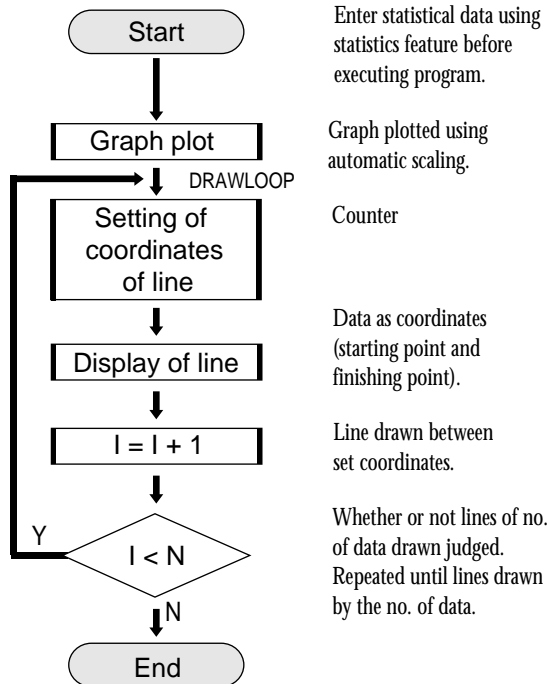


Creating a Graph of Experimental Data

Graph the results of an experiment and examine the trends.

(Example: examined data relating to water vapour pressure and temperature.)

FLOWCHART



PROGRAMME LIST

```

Title : XY GRAPH
ClrG
Rem DRAWING SD
2 .Stats L1,L2
Rem RANGE
xmin ⇨ Xmin
xmax ⇨ Xmax
ymin ⇨ Ymin
ymax ⇨ Ymax
(Xmax-Xmin) / 10 ⇨ Xscl
(Ymax-Ymin) / 10 ⇨ Yscl
Rem BROKEN LINE
For I, 1, n-1, 1
L1(I) ⇨ X
L2(I) ⇨ Y
L1(I+1) ⇨ Z
L2(I+1) ⇨ W
Line(X,Y,Z,W)
NEXT
Wait
End
  
```

PARAMETERS

Name of parameter	Content	Name of parameter	Content
I	counter	Y	y of line starting point
X	x of line starting point	W	y of line finishing point
Z	x of line finishing point		

*n = number of statistical data

Exercise

The following table shows examined water vapour pressure. Draw a graph of this data.

Temperature [°C]	0	10	20	30	40	50	60	70	80	90	100
Pressure [mmHg]	4.581	9.205	17.532	31.826	55.339	92.558	149.47	223.79	355.29	525.90	760.00

Set up condition: decimal point in Float Pt Mode.

2ndF **SET UP** **C** **1** **CL**

Step

Key Operation

Display

1 Enter statistical data into L1 and L2.

STAT **A** **ENTER**

No	1: L1	2: L2	3: L3
1			
2			
3			
4			
5			
6			

2 Enter the value for temperature.

0 **ENTER** **1** **0** ...
1 **0** **0** **ENTER**

(Other numbers not shown)

No	1: L1	2: L2	3: L3
7	60		
8	70		
9	80		
10	90		
11	100		
12	-----		

3 Enter the value for pressure.

▶ **4** **.** **5** **8** **1** **ENTER**
 ... **7** **6** **0** **ENTER**

No	1: L1	2: L2	3: L3
7	60	149.47	
8	70	223.79	
9	80	355.29	
10	90	525.9	
11	100	760	
12	-----		

4 Specify the programme mode. Select the title XY GRAPH.

PRGM **A**

(Drawing of graph)

