CG Lab Test

1. Draw a graph for scatter plot so that it can be used to give visual insite into data. The data for each are plotted as a dot position (height, weight) .

2. A polyline is defined as a chain of line segments. Write program is able to generate a set of interesting polyline patterns.
   Let Forward be the function handling ‘f’ (where f is to add new segment in polyline), Turn(θ) be the rotation function handling ’t’, and Scale(s) be the scaling function handling ‘s’/‘S’, we can construct some patterns using the following procedures:

Pattern	Key	procedure
Polygon(n)	p	{ Forward(); Turn(2π/n); }
Star(n)	a	{ Forward(); Turn(4π/n); }
Spiral(n, θ, s)	r	{ Forward(); Turn(θ); Scale(s); }