***(RCA-551) Computer Graphics & Animation***

***ASSIGNMENT***

## *Aim:* [*Write an algorithm to perform Two-dimensional transformations (Scaling) on a Triangle.Assignment*](http://lms.kiet.edu/mod/assign/view.php?id=16257)

[***Write an algorithm to perform Two-dimensional transformations (Scaling) on a Triangle.Assignment***](http://lms.kiet.edu/mod/assign/view.php?id=16257)

1. Make a 2x2 scaling matrix S as:

Sx 0

0 Sy

2. For each point of the polygon.

(i) Make a 2x1 matrix P, where P[0][0] equals

to x coordinate of the point and P[1][0]

equals to y coordinate of the point.

(ii) Multiply scaling matrix S with point

matrix P to get the new coordinate.

3. Draw the polygon using new coordinates.