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

***ASSIGNMENT***

***Aim****:* [*Write an algorithm to perform Two-dimensional Translation on a Point.*](http://lms.kiet.edu/mod/assign/view.php?id=10375)

***Two-dimensional Translation on a Point Algorithm:***

*Step 1. Make a 2x2 scaling matrix S as:*

*Sx 0*

*0 Sy*

*Step 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.*

*x'= x+tx y'= y+ty*

*Step 3. Draw the polygon using new coordinates.*