Introduction to Scientific Computing Software HW2
Student ID : < **Student ID** >

Please use **MATLAB** and **data.mat** to solve following problems :

1. Use `strcat` function and `name` variable which in `data.mat` to show "My Student ID:< **Student ID** >"
2. Use Q and A which load from `data.mat` to calculate :
   (a) $Q^{-1}A^{10}Q$
   (b) eigenvalues of A in a diagonal matrix
3. Solve the following system of equations in the form $PX = Q$

$$\begin{cases} 5x + 4y - 5 = 0 \\ 3x - 2y + 7 = 0 \end{cases}$$