## PSC205A Assignment 01: Matrix Algebra

## Q1 Compute A + B

```
A <- matrix(
     c(1, 4, 2,
         2, 0, -5,
        -1, 2, 1,
       0, 1, 2
      ), nrow = 3, ncol=4)
   B <- matrix(</pre>
     c(3, 1, 2,
         -4, 5, -1,
        1, 0, 3,
        2, 3, -1), nrow=3, ncol=4
  A + B
     [,1] [,2] [,3] [,4]
[1,] 4 -2 0 2
[2,] 5 5 2
[3,] 4 -6 4 1
                A + B = \begin{bmatrix} 1 & 2 & -1 & 0 \\ 4 & 0 & 2 & 1 \\ 2 & -5 & 1 & 2 \end{bmatrix} + \begin{bmatrix} 3 & -4 & 1 & 2 \\ 1 & 5 & 0 & 3 \\ 2 & -1 & 3 & -1 \end{bmatrix} = \begin{bmatrix} 4 & -2 & 0 & 2 \\ 5 & 5 & 2 & 4 \\ 4 & -6 & 4 & 1 \end{bmatrix}
```