Student	Vikram Kalta	98

Part 1

	Available	Marks
Create a matrix *message1* that contains the character data above, together with the numerical labels for rows and columns. Display this matrix.	5	5
Generate the ciphertext using the following ruleset: Start at 5,5 and work towards the left. Read odd-numbered columns upwards and even-numbered columns downwards. Display the encrypted message as a vector *ciphertext1* which contains each character of the ciphertext as a separate element in the vector.	20	20
Suppose that the message is written in a 3x9 array rather than a 5x5 array. Generate an appropriate matrix *message2* and use the two methods given in the introduction to generate two more vectors *ciphertext2* and *ciphertext3*.	15	15
Which of the two matrices, *message1* or *message2* do you think produces the most secure encryption methods? In a comment at the end of your script say which you think is the most secure and why this is the case. Do not write more than 100 words on this.	5	5
Commenting and use of white space	5	5
	TOTAL	50

Comments
Excellent commenting and use of white space. The inclusion of links to source material is particularly commendable.
1.1 Good matrix creation.
1.2 Good solution.
1.3 Good solution.
1.4 Very good points made about the matrix dimensions and sizes.
Excellent work. Well done.

Part 2

	Available	Marks
Create an appropriate matrix to hold the decrypted message and populate it from the ciphertext. Display the matrix once it has been populated. METHOD 1	13	13
Create an appropriate matrix to hold the decrypted message and populate it from the ciphertext. Display the matrix once it has been populated. METHOD 2	13	13
Create an appropriate matrix to hold the decrypted message and populate it from the ciphertext. Display the matrix once it has been populated. METHOD 3	13	11
Which of the two matrices, 5x5 or 9x6, do you think produces the most secure encryption methods? In a comment at the end of your script say which you think is the most secure and why this is the case. Do not write more than 100 words on this.	6	6
Commenting and use of white space	5	5
	TOTAL	48

Comments
Excellent commenting and use of white space. The inclusion of links to source material is particularly commendable.
2.1, 2.2, 2.3 All three methods work well. You would be better adding spaces rather than NA in deciphermatrix3.
2.5 Good points about sizes, dimensions, and reading directions.