

Student	Jay Kakadiya	73
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Part 1

	Available	Marks
Create a matrix <code>vigenere</code> that contains the character data. Display this matrix.	5	5
Using the keyphrase <code>UWTSDSWANSEA</code> , encrypt the message <code>CAPTURETHEFLAG</code> using the method described. You should create a vector <code>keyphrase</code> to hold the keyphrase, a vector <code>plaintext</code> to hold the plaintext and a vector <code>ciphertext</code> to hold the ciphertext. Display the plaintext and the ciphertext.	25	19
Decrypt the following ciphertext using the keyphrase <code>RPROGRAMMING</code> and store the result in the vector <code>plaintext</code> . <code>ETMSXWISTBNHRIKZKKHMFGBAUDECZEEQPBBBCZC</code>	25	20
Commenting and use of white space	5	4
	TOTAL	48
Comments Commenting and use of white space are good, although you should put your name and student number in a comment at the top of the script. Q1: Good concise technique. You could have use the predefined <code>LETTER</code> constants to condense it even further. Q2: Good error trapping converting all to upper case and handling of possible numbers. It may not print because your first character is a space.		

Part 2

	Available	Marks
Explain how your code works (including a flow chart) and explain how you tested your code (include examples of the code and data used). TASK 1	10	7
Explain how your code works (including a flow chart) and explain how you tested your code (include examples of the code and data used). TASK 2	10	7
Explain how your code works (including a flow chart) and explain how you tested your code (include examples of the code and data used). TASK 3	10	7
A reflection on what you found challenging, what you learned, and what you would do differently next time.	10	4
	TOTAL	25
Comments A very well-presented report. Q1: Loops are normally shown with 2 outputs rather than 1 but otherwise good. Q2: Loops are normally shown with 2 outputs rather than 1 but otherwise good. Q3: Loops are normally shown with 2 outputs rather than 1 but otherwise good. More detail is needed in the reflection. You found challenges but how did you overcome them?		