

Student	Chisom Nwankwo	80
---------	----------------	----

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	20
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	49
Comments Remember to include your name and student number at the top of the script. Good use of comments and white space otherwise. Q1: Good use of <code>LETTER</code> . Q2: Good use of <code>match()</code> . Q3: Good use of <code>match()</code> and <code>append()</code> .		

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	8
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	8
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	8
A reflection on what you found challenging, what you learned, and what you would do differently next time.	10	7
	TOTAL	31
Comments Q1: Good use of variable names in the descriptive text. Nice clear flow chart. Q2: Good use of variable names in the descriptive text. Nice clear flow chart. Q3: Good use of variable names in the descriptive text. Nice clear flow chart. Reflection is a little short but makes some good points about readable code.		