

Question 3:

A) Consider the following message:

SIDKHKDM AF HCRKIABIE SHIMC KD LFEAILA

This cipher text was produced using the following sentence:

*The snow lay thick on the steps and the snowflakes driven by the wind
looked back in the headlights of the cars*

A **substitution** cipher was used.

- Can you find the encryption algorithm? Is it secure? Why?

Question 3:

B) Using the following Playfair matrix:

J/K	C	D	E	F
U	N	P	Q	S
Z	V	W	X	Y
R	A	L	G	O
B	I	T	H	M

Encrypt this message:

(just the red part is enough)

I only regret that I have but one life to give for my country

C) Using the Vigenere cipher encrypt the word *cryptographic* using your own three letter key (e.g., eng).