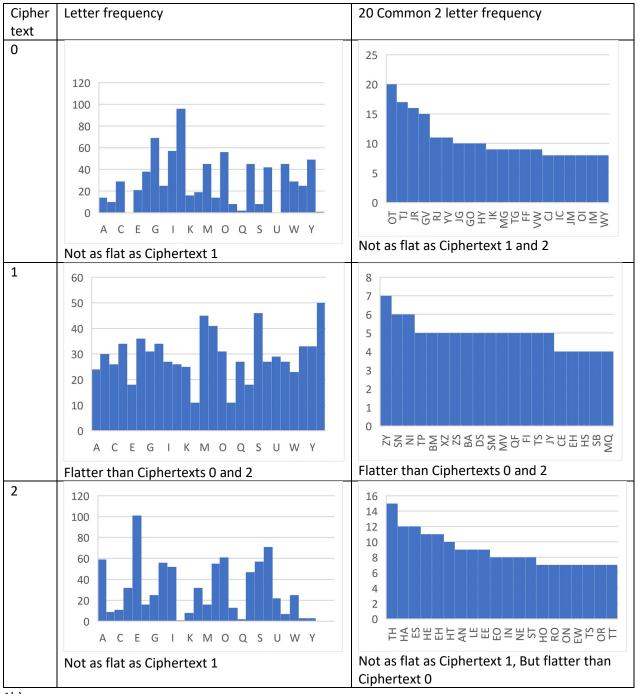
Tham Jit

j2tham

1a)



1b)

Ciphers	Letter frequency	20 Common 2 letter frequency
Substitution	Similar to English alphabet	Similar to English alphabet
	rearranged	rearranged
Polyalphabetic	Flatter than English alphabet	Flatter than English alphabet
Transposition	Similar to English alphabet	Flatter than english alphabet
	rearranged	rearranged but not as much as
		polyalphabetic cipher

Ciphertext	Method	
0	Substitute letters with ones of similar frequencies in the English alphabet and fuzz until a passage	
	that make sense appears	
1	Make a guess for key length (L)	
	Divide ciphertext into L groups	
	Examing frequency distributions of letters in each group	
	Increase L until frequency looks similar to that of the English alphabet	
	With L found:	
	For each set of letters in group, use frequency counts to guess for the letter of key word	
	Use keyword to decrypt ciphertext	
2	Guess key length	
	Use anagramming to improve diagram and trigram, polygram frequency until English words start to	
	appear	

1d)

Ciphertext, key	Text
0	ME A LETTER FROM WESTHOUSE & MARBANK, OF FENCHURCH STREET, TO SAY THAT THE DESCRIPTION TALLIED IN EVERY RESPECT WITH THAT OF THEIR EMPLOYE, JAMES
GALWJENTYQPF	WINDIBANKVOILA TOUT_!" "AND MISS SUTHERLAND?" "IF I TELL HER SHE WILL NOT
CVISDRMOKBHZXU	BELIEVE ME. YOU MAY REMEMBER THE OLD PERSIAN SAYING, 'THERE IS DANGER FOR HIM
	WHO TAKETH THE TIGER CUB, AND DANGER ALSO FOR WHOSO SNATCHES A DELUSION
	FROM A WOMAN.' THERE IS AS MUCH SENSE IN HAFIX AS IN HORACE, AND AS MUCH
	KNOWLEDGE OF THE WORLD." IV. THE BOSCOMBE VALLEY MYSTERY WE WERE SEATED AT
	BREAKFAST ONE MORNING, MY WIFE AND I, WHEN THE MAID BROUGHT IN A TELEGRAM.
	IT WAS FROM SHERLOCK HOLMES AND RAN IN THIS WAY: "HAVE YOU A COUPLE OF DAYS
	TO SPARE? HAVE JUST BEEN WIRED FOR FROM THE WEST OF ENGLAND IN CONNECTION WITH BOSCOMBE VALLEY TRAGEDY. SHALL BE GLAD IF YOU WILL COME WITH ME. AIR AND
	SCENERY PERFECT. LEAVE PADDINGTON BY THE 11:15." "WHAT DO YOU SAY, DEAR?" SAID
	MY WIFE, LOOKING ACROSS AT ME. "WILL YOU GO?" "I REALLY DON'T KNOW WHAT TO
	SAY. I HAVE A FAIRLY L
1	you say dear said my wife looking across at me will you go i really don t know what
	to say i have a fairly long list at present oh anstruther would do your work for you
zfvmou	you have been looking a little pale lately i think that the change would do you good
	and you are always so interested in mr sherlock holmes cases i should be
	ungrateful if i were not seeing what i gained through one of them i answered but if i am to go i must pack at once for i have only half an hour my experience of camp life
	in
2	and horrible enough. When a doctor does go wrong he is the first of criminals. He
	has nerve and he has knowledge. Palmer and Pritchard were among the heads of
4,3,5,6,1,2	their profession. This man strikes even deeper, but I think, Watson, that we shall
	be able to strike deeper still. But we shall have horrors enough before the night is
	over; for goodness' sake let us have a quiet pipe and turn our minds for a few
	hours to something more cheerful." About nine o'clock the light among the trees was extinguished, and all was dark in the direction of the Manor House. Two
	hours passed slowly away, and then, suddenly, just at the stroke of eleven, a
	single bright light shone out right in front of us. "That is our signal," said Holmes,
	springing to his feet; "it comes from the middle window." As we passed out he
	exchanged a few words with the landlord, explaining that we were going on a late
	visit to an acquaintance, and that it was possible that we might spend the night
	there. A moment later we wereuto
	there. A moment later we wereuto