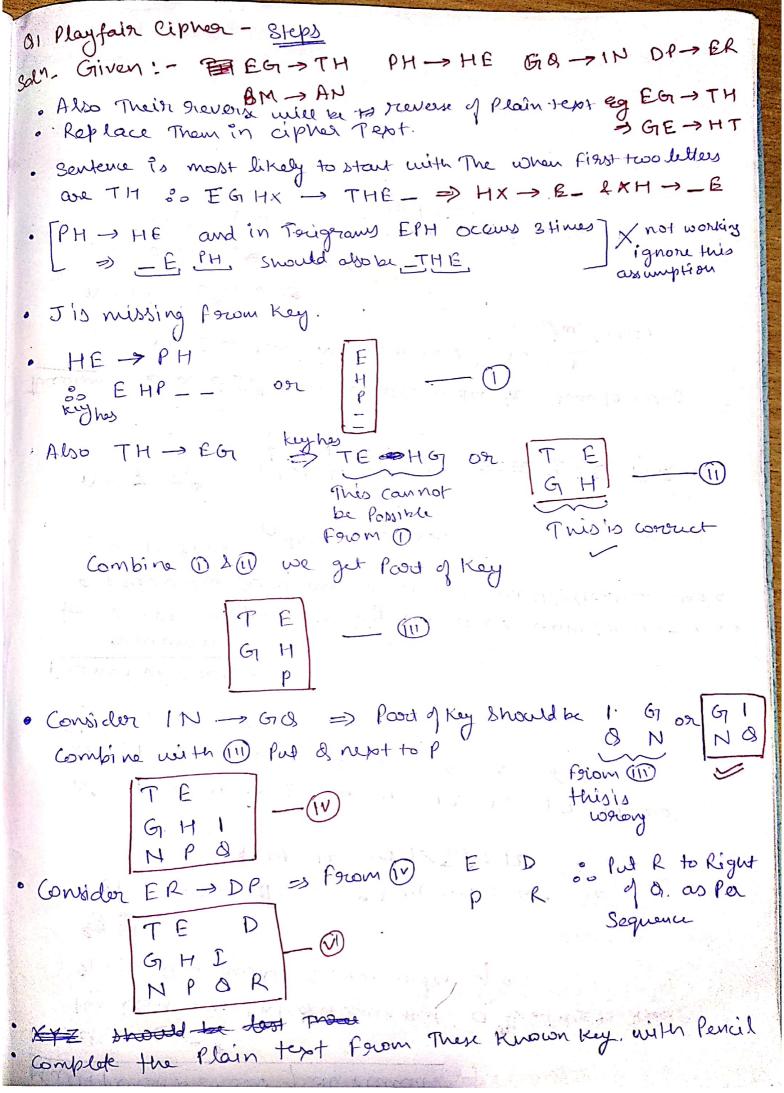
TUTORIAL 2

CRYPTANALY S13

SUBMITTED BY-AMAN BHARDWAJ 2019 SIY 7580



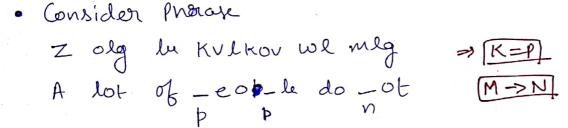
· Consider AN- lest 3 chars A B TEC M N P 8	Opportunity of the plant "
· Key = AB	Now compute Pept as much as possible with these known key square elements.
· Square =	ABSOL NOW Decrypt the apple Text apple Text ANPBR WXYZ

		8	1 1	PLAY	PAI	g c	-1PH	ER	(B9U	oken	9n P	منعم	FON Y	lay Pais
	EG TH	₽ <u>₽</u>	ow	DP ER	AI OF	HI HI	₹E EH	XC YE	BX SW	BO AS	IC 2	N ≅	KC I D	DP ER
	BS AB	OZ LY	TP EN	FS HA	TQ NC	CÚ ED	ow B y	EG TH	CH EI	MQ RP	LO ©S	GC IT	QC T.o	PQ NP
	LAB LA	DC ce	UL DA	BE <u>2</u> T	PH HE	AR ZX	DP E R	TS EB	CE ET	のじ XI	TP £N	EG TH	нх £ Р	OF A J
	WG N T	E D	IA F <u>Q</u>	PD RE	PH HE	LU A-D	BM AN	UE D T	PH HE	UL DA	ZR R <u>k</u>	XG ピカ	OH 21	Ŗ€ HD
	PL RS	XG ₩H	QI \C	H S PE	DN TR	US EA	₩ E BU	D.X EZ	CL Do	BW WN	IK Hı	OE 2 c	PH HE	€ ⊼ DH
	EH SE	V €	MB N A	FS HA	AK LF	¥G ₩1	EB TS	CX Ey	HE ES	YB wc	DA U L	EL 24	MS PA	ZR R.S.
	SD	GQ N	AE Su	EI	BO AS	CE ET	CG	WN	CB T Q	DQ	BY OW	WG NT	PH	UH E F
	HU FE	DE C7	PH HE	YB wo	TM UN	UL DA	OB S A	HV		BQ	IC	AL	DM UR	CU
	ET T2	NL RB	BM An	LM AR	AC QU	RT ND	IK H 1	EP	US EA	UE ÞT	IK	OE Sc	LA OL	AX 2v
	CP EQ	LE SD	IU Fc	PT NE	PU ME	XD ZE	PM PR	UK DF	V OC	€ v UX	HS Ex	QS Po	DX EZ	TP EN
	DB TL	UD DC	NO O.B	UE DT	CU ÈD	ES S×	IF H上	ДВ	20 82	TH EG	D7 ET	MU F-A	SE ×s	WD
	NO S.B	UE DT	CU E D	EC TE	Ko IL	0Q . Y I	AO LS	LZ ZR	KS H L	FO JA	KB GL	OU AC	BD 上て	RE P P
PICIUE	S 3 3 - 6 0 - 5 1 - 5 1 - 3 1 - 3	TP UL HX BY	-3 -3 -2 -2	E-3 U-2 B-2 P-3 C-2	OD	- 19 - 18 - 16 - 15	EPH	-2 -2	00-2	£ 11 2	GHTX		chai	ss which he book d

Question 2: Simple Cipher	
Nbzmnzi rh z xlfmgib rm Zhrz. Nzmb Ilsrmtbz Nfhornh orev gsviv. Gsvri orevh ziv evib 18 a j in Asia Many muslims there Their are Myanman Country Rohingya)
wruurxfog. Gsvb nfhg nrtizgv z olg. Rm 2017, gsviv rh hgilmt nrorgzib zxgrlm ztzrmhg Ilsrmtbz difficult Theograph a In There is militerry against must Lot strong action Rohing	7
Nfhornh. Gsviv rh z olg lu erlovmxv. Nzmb kvlkov wrv. Z olg lu kvlkov ifm zdzb gl zmlgsvi Musling Those is a violante Many people die A people to the away anothe	יינ
Countery people that there the The governme Some believe genecide Rohingga	2
zhph z xlnnrggvv gl urmw Ifg dszg szkkvmh. Gsv xlnnrggvv hzbh gszg gsviv rh ml tvmlxrwv. a to out The lays I there's no asks committee that genocid hoppened	٨
However there is serious I A lot of people of this They say that the serious I crime believe	
government to the touth	
A B C D E F G H I J K L M N O W V V T S R P O N M L	
PQRSTUWXYZ KIHGFEDCBA	

02. Simple Cipher.
Steps Followed -
• GISV is the most forequent toughour so it must be english world THE as per foreq. Analysis : GI→T S→H V→E
· Replace GISV with THE in the text and locy to figure out words containing GISV.
GSVIV -> THERE This should be THERE
· Z occurs as Single world of It should be either I on A but It can not be I as per placement of A makes sense \[\begin{array}{c} Z \rightarrow A \] Now look at multiple words with 9th having known text in Surrounding GSVIV Rh Z and 9th Z \Rightarrow H \rightarrow S THERE I \rightarrow a \text{I} - a
GSZG -> TH_T clearly b"THAT" >> [Z->A]
Consider Phase GISMV 9th Z olg lu There is a -ot o- (lot of) fits here
Known letters so for Consider [HLNV -> SO -E DSAG -> _ S_T] compinations Consider [TR-TH clearly +9wth -> [F=U] Ignobe for nou
consider gl sour gov gifgs to hime the tough so (sour shide) => [W > D]

Complete the words with known plain text letters so for



- . Complete things with known letters so for.
- NZMB people die 00 clearly MANY > N→M!

 -AN
 B→Y
- · After Completing Consider following storing.

 Z olg lu KVLKOV who milg YVORVEV goach
- A lot of People do not BELIEVE this BY B
 - · Complete the words.
- · WHOUNX FOG

 DIFFI _ VLT
- · gsviv orn hgilmt this is storon = > [t > g]
- · Zdzb -> a ay -> D -> w
- · Complete the Text-now.

Plain Tept

Myanmar is a country in Asia. Many Roningya muslims line
there. Their lives are very difficult. They must migrate a lot.

En 2017, there is storong military action against Rohingya.

muslims. There is a lot of violence. Many people die. A lot of people gum away to another Country. Some people believe that there is genocide of the Rohingya. The myanmar government asks a committee to find out what happened. The Committee says there is no genocide. However, there is berian crime. A lot of people do not believe this. They say that the government wants to hide the touth

Ques	stion 3 Sim	ple Ciphe	er										
Htgh Peopl	Use 1	kttfl zg h to b creen	nkgztez ↓ noicd -	zitok the_ the is	laof y	kgd z tu Dom	it lxf. ¹ le V - Jun,	Zitkt o The —!	ol q ftr	v Izxrn	Oz ko It Sa	pnl ziq: ولايم	z lgdt at bome
eitdo Chemic	pegsl of lxf שלט <i>א</i> ר געל	Tekttflut Jgl wscruen	tz ofzg d into	htghs ↓ peopl	t'l ws: blo lu's	ggr Le محما عو	otfzolz J ienti	el ztlz teat ats (ygxk r √di owr	oyytkti ffent	fz Ixfle これ よい	kttfl q پر مر پرسو	fr lob nd n
che_i	oeqsl. Zitn They cals	I that	X (A) X	hen'	ical	J-jw l z	boo	The The	e¥ n do	ot l Knou h	is the	ne sec	witcol
rg zg o tz zit v	g htghst. Oz Propie propie	z ol vgkkr - i s J - Wort	nofu. Le Szi Tying	eotfzol iewtr?	Izi dxiz Sts J must	rg dgl	kt ktite sre I	kei zg to Scano	xfrtklz n Und	eqfrigv Hoo C C	eitdoo bew hew and	eqsl ut ge icals	z ofzg t-i wto
the	body									ð			
A K	ВС	M	E C	F 7	G O	н Р	H	J ·	K R	L	M	Y	
Р	Q R	s L		U G	v W	w B	×	Y F	Z T				
Digraphs $Zg-3$ $0l-2$ $0z-2$ $0f-1$	Town XIt Zit Lxf FtV	+ 1 +1 +	Que 12it										
99-3 9	qfn lob	十一曲											
\$	9,35 Fgz igv												

Q3- Simple Substitution Cipher
Steps followed-
· Marite Righams Prigrams from text.
$\frac{7}{100}$
Sis 29 0 02 - Sis 29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Qued-> zitm
It seems clear that ZIT -> THE -> Z->T P->H T->ET
Now - It the plants with
· Single letter q. Consider as A => (8) A => ZiqZ -> THAT
· Replace with these charactors
· A lot of words start with Zitie The
ZITOK ZITKT ZITN ZITLT
THEIR THERE THEY THE-E
K-> R [K-> R] MOT SOUTH FORTHUM [N=Y] as THEY is forthum the forthum for the forthum forthum forthum forthum forthum forthum the forthum forth
· Zg comes 3 times TO 6° 5 9+ Should be TO as Partney analysis.
Complete words with these known letters.
RGZG Consider these two Consecutive words.
GO TO :. GO TO makes beuse
⇒ R → GT On R->D But Do makes more sense when we look at formations of R ⇒ R=D] (onsider ZITKT OL & ⇒ II → 8]
Consider ZITKT OL Q => IL> 8]
THERE I'S A => There is a > [L > 3]
> THE'E -> THESE
OFZG -> I_TO 00 "Into" => [F=N]
Complete with these nus to letters
Consider phrane Zith rig fgz afgv > [A > K]
They do not know wow

· Consider w GRN into the BODY makes Beuse > > \$ 100 -B · UTZ ofzg zit wgan GET into the Body => [U+>6] · Consider woolds ws GGR -> B-00D) Both have some letter A _ _ J missing oo Blood & all Makes senge Consider word Hat GHST PEOPLE -> H->P Consider Zitke of a fev LZXRN

There is a new STUDY. > [X -> U] Now complete words with these knowletters. · Consider word LXFLEKTTL > E>C SUNSCREEN · Consider zitok last yrga zit LxF Pheir Skin Erom The Sum Complete the words Consider 9 for lob cit do eq 81 and dix chemicals -> [D->M] as Four is used in this line so let as Consider four _ and Six _ For now Consider B -x · Consider KtltgKei -> Research People use sunscreen to protect their skin from the sun. There is a now study. It says that some chemicals in sunsown get into people's blood. Scientists test four sunscereurs and Six chemicals. They find that all six chemicals get into body. They do not know what these chemicals do to people. It is wo gorging. Scientists must do mora gressearch to understand how chemicals get into the body.