	ANKIT GOYAL Roll No 17103011						
		CSE Final	Year				
			the Park of the water	180			
	letter) (a-Z) = 26						
	digits of	(0-9) = 10	This of the				
	0	36					
	(9) Key Size	= 36, mod	tulus = 36				
	(b) Kay size =	only Vall	tulus = 36 Us whose gcd (9,3	6)=1 5			
	0	be in key	domain -				
	Hence K	ey domain =)	possible values of	a			
		€ (1,5	possible values of ,7,11,13,17,19,23,25,2	29,31,35)			
		(Key 5:2e = 12:					
	ma	$m_{\rm c}(1) = 36$					
	(c) Key domain	= (Key do	main of additive)* (Key	domain of			
	Total Asire	V	Manager The Committee of the Committee o	multiplicative)			
	= 12 *36 = 1432						
	modu	Min Jude					
		Sec. 1	The second	1 1 1 1 1 1			
2.	KAR LAND	15-3-11-6	ACX X-				
(a)	Encryption formula => (character No. + Key) 1.26						
	Encryption formula => (character No. + key) 1.26						
	Messag	message = "this is an exercise"					
	± → n	1 a > 4	c-)w	119			
	h -> 6	n+h	; i-) c				
	i -1 c	eny	s-+m				
	5 -> m	XAX	· e - y ·				
	inc	eny	a Chia				
	5 -> m	8-12					
	Encrypted tent of noch on whatyrylwormy						
	Document on formula)						
	01	Character No- Key) 7. 26					
			+26/				
- 11							

	Pecryotion	Pecryption 7.							
	$n \rightarrow t$	m >5	syte (country						
	6-7 h	u + a	144						
	c-);	4-14	U→C						
	n+5	gre !	C) i						
The second	Cai	Y-X	m+5						
		NAME OF THE PARTY OF	y te						
	Decrypted fort) this is an exercise.								
(6	Multiplication	Multiplicative cipher: (With key 15')							
6	Encryption	Encryption formula = (character No * key) -1. 26							
To and	W LANCE	message & " th	is an overwie".						
San San	J-12	a-19	c - e						
	h->6	n+n	1) 9/1						
	1-19	eti	5 → K						
	SAK	X+h	ezi						
	179	e-i	N dry was and both						
· Va	S -> K	8-)V	to clavered and grains						
7, 4		entire and sil	LANCE STREET						
	en orunted of	المام المام							
	enoughted string if the ak on ihiveaki								
	Dechib Fan do		ges el series						
	Pecryption formula:) (character No. × (key 1)).1.26								
		Key 1 = 151 =	K Care Market						
	2-)t	a)a	VAY						
	b -> h -> 0	PAR S							
	9-11	270	e-1 C						
	K-15	pi-)en	2-11						
	2-11	h ×	K-15						
	K-15	ine	i – e						
Zina in the same of the same o									

	Pecrypted string of this is an exercise (c) Affine Cipher with Koy (15,20)							
	Encryption	Encryption formula of (character No *15 + 20) 7.26						
	tat I nah		123	ink	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1			
	hav	eac		5-)e	23 1. 1. 2			
	i→K	2+x	- The T	e-) (BANK MARTIN			
	s-ie	- v-) P		of H.F	11 61 11			
,	a-74	a au cay						
	Encrypted	string =) t	vke'	Ke uh	co cyyker			
	Decryption formula) ((character No - 20) * (15)) 1.							
	+ ++ 1 U-) q 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
Vah han yac		1+0	8) -(6.7)					
	K-1iag .				Kaine a la Tallan			
	e 75 ·	6-1× . (c)	1	2-15	E GO J CH			
	Kai	Cle	(re s	1 / 81 7 1 58			
	e-15	PAY COM	o Li	ANTES	79479			
	UM ER	art. Tho	1-1	siffe s.	1-1-1-10			
pecky pled string of this is an exercise.								
		42 1 / 2 May		1 3	+ 1 11 96			
3.	Vigenne tabl	e - A fable	9	26 × 26	size with each			
	alphatics	in differen	+ rou	, each	alphabet shifted			
	nevieus alphabet.							
	comosponding	equalically to left compared to previous alphabet. corresponding to 26 possible shift appears						
1	Text = LIFE IS FULL OF SURPRISES							
- 11								
	Keyd HEA	T 20 1 1 1 1 1						
1	medal cont	ypted= smfpbzmylwhnzyrakpzis						
Er	crypted=) smj	7 0 (0		0				

We live in an secure world?

We
$$\begin{bmatrix} 22 \\ 4 \end{bmatrix} + \begin{bmatrix} 2 \\ 5 \end{bmatrix} \begin{bmatrix} 11 \\ 4 \end{bmatrix} + \begin{bmatrix} 36 \\ 138 \end{bmatrix} + \begin{bmatrix} 64 \\ 8 \end{bmatrix} = 11$$

We: $\begin{bmatrix} 21 \\ 4 \end{bmatrix} + \begin{bmatrix} 2 \\ 5 \end{bmatrix} \begin{bmatrix} 21 \\ 8 \end{bmatrix} + \begin{bmatrix} 21 \\ 4 \end{bmatrix} + \begin{bmatrix} 23 \\ 101 \end{bmatrix} +$

Encoded string & EIUH CPP BNNPB MOMUUJIAPGOI

