	Name: Tejas Redkari
	ROLINO: PC-44
Name of the last o	Panel-C, Batch-C2 (At) Ug
a made	PRN: 1032210937
3	TCS Lab Assignment - 1
	property and a second distribution of the second
*	FAOUS CONTRACTOR STATES
L	Serve of the standard of the s
(100 C)	What are various dassical cipheres?
ns	A A A A A A A A A A A A A A A A A A A
V. 1. 1. 1.	dechniques that were used to secure the
	considerationality of messages before the advent
	of modern curipto graphy. These ciphers often and
	vically on simple mathematical pounciples
	combinations substitutions. Here are isome of the
a same	most well known classical ciphers:
``	and a war in a few of a grown in a contract of the contract of
1=	1) Caesar Cipheres: Named after Julius Caesar,
	this is one of the wimplest wubstitution ciphers.
	of involves whileting each leaves in the production
	hua dixed number of positions about our up
	the alphabet. The while to carred the
N -	is all key to be and individually a plant of the control of the co
÷	the items to the action of the contract of the
	2) Substitution cipher: In this type of cipher each
.1	Taken in the plaintext is uneplaced with anomer
	laller hand on a ovederenine of key - the most
	Jamous example is the Atbash cipher, where each
A	

CRYPTO GRAPHY: The purimasey purpose of wyptography is to purofect the confidentiality & integrity of information. It involves encoding plaintext into ciphertext using various algorithms & keys to prevent unauthopized access our tampering.

STEGANOGRAPHY: Steganography aims to conceal the existence of information within other data in such a way that the hidden information, is difficult to delect.

2 Concealment vs mansyarmation:

CRYPOTO GRAPHY: Curappoto (veypto greaphic techniques terans from the overginal data (plaintent) into an unintelligible from Ciphertext) using algorithme detays. The overginal data becomes obscure.

STEGANOGRAPHY: Steganographic techniques hide data within other data by wubtly altering the courier data without wignificantly changing its appearances.

3 Detection

CRYPTOGRAPHY: Crypto analysis is the purocess of altempting to decipher encrypted messages without

To prove the second	
	the coursect key. If the encuryption algorithm
	de key one sterong.
Lice	
10.1	STE GIANO GRAPHY: Detecting hidden data in
ot	stepanographic content is challenging & vielles
	on whatistical analysis, parteren recognizion
·	our especialized tools.
-	
@3)	State the vicasons cuty classical ciphers are
str.	absolete?
Ans	Classical ciphers, while his towically significant,
	are considered obsolete in modern ouppo graphy
	you several viersons.
,	0
O.	Lack of Security: Classical ciphers are
	relatively wimple & can be easily buroken
The series	with modern computing powers & corrupto graphic
. with the bed	analysis techniques.
2)	Limited Key space: Classical cipheres Oyten
	have a limited key space, making them
No. in Co.	roupectible to burnte- force attacks.
3)	Single-Kayuna Keys: Many classical ciphers,
- 5)	especially the ones used historically relied
	on usingle-use keys, making them vulnerable
	to compressionise in the key was interrupted
	intercepted our occupated
4)	No Fourward securery: Classical ciphers lack
h	yourard vecurery, meaning that if any
n.n.di	adversary captures a message encuypted with

	cipher, what with basic technique like the caesar cipher & tony decompting the message.
	caesar cipher & tory decoupting the message.
Value	and the second of the second o
6	Pattern Recognition: look you patteren & veopetition in the cipher text.
25	in the cipher text.
<u> </u>	Known- plaintext affect : You can use this
	information to deduce the key our encour ption
C1	method.
	But tource affack: Attempt but yource affacts by trouging all possible key out key continibutions.
	by trueying all possible key our key continibutions.
يدها اد	matellia un de de dine e modifica de la dicione
- () () () () () () () () () (Expertise & tools can automate many of the
. (1.	above oseps.
2	. or is see 2 ft a set with the
	Peresistence: Comptanalysis can be challenging
of Dilli	l'ime consuming.
(a)	
<u>(0)</u>	Document your work.
0-1	A Library Alacia
05)	Courte how different disciplines of art, science engineering have contributed for information
7 -	L'angus have contoured got injurindition
	security.
Ans	Information security is a multidisciplinary
VOI (B)	Lield that devives an various disciplines.
	field that devives an various disciplines, including and, sciences & engineering, to develop
voile	stera tegies & technologies to priotect data &
	proved the

