	KULVIR SINGH
	CYBERSECURITY DA - 2.
=	YBERDELORIT
1	) a) 2942 bits
	last block data = 2942 mod 1024 = 394
	length field = 128 bits
	length field + last block data = 894+128 = 1022 bits.
	The Contract March Section Asset Contract Contra
	:. Padding required = 1024 - 1022 = 2 bits
	b) 2943 bits
	last block data = 2943 mod 1024 = 1009 895
	length field = 128 Lits
	length field+ last block data = 895+128 = 1023 5/16
	There is a charge flower as a congretation of
	: Padding required = 1024-1023 = [1 bit]
	ation of the second
$\prod$	c) 2944 bits
$\parallel$	last block data = 2944 mod 1024 = 896
	length field = 128 bits
	length field + last strek data = 876 + 128 = 1024 sits
	1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 ×
	:. Padding required = 1024 - 1024 = 0 51/6
1	V .

(B	a) 2942 bits.
	(1024 x 3) - 2942 B
	= 3072 - 2942
	= 130
	130 > 128
	i. 130 bit message would require a knowt blocks
1/4	b) 2943 bit
	(1024 xs) - 2943
	= 3072 - 2943
	= 129
	129>128
$\parallel$	i. 129 bit message would require 2 input thes
1	
1	c) 2944 bits
$\parallel$	(1024 x 3) - 2944
#	= 3012 - 2444
$\bot$	= 128
#	: 128 bit message would sieguire 1 imput block

9 = 23  $\alpha = 5$ Public Key for Bob = 12 = 10

Public Key for Alice = 4, = 10 8 Private Key fro Sob (Xrs)

Ye = a mod q

3) 10 = 5 mod 23 P) N<sub>L</sub> = 3. Shared Key UK)

K = (Y<sub>A</sub>)<sup>x</sup> B mod q

E (8)<sup>3</sup> mod 23 = 512 mod 23 : 6 MB = 3 · Am K 2 6

881 d = 700 8 = 17 M - 400 e1 = (yaz) e mod p 02 3 tor mod 881 = (559 x 382 x 826 x 440) mod 881 471 317 mod 881 (312, 34, 31) mod 881 (198 × 81 ×3) mod 881 540 92 = (M-dxS1)2-1 mod (p-1) = (400 - 700 x 540) (17) mod (881-1) = (-377600 x673) mod 880 = (-254124800) mod 880 420 =

a) Planning of Attack
Active and Passive Attacks are security
attacks. On Active attack, an attacker teries to modify the content of the missages. Whereas in Passine attack them and may use them for wasteries malicions pur poses. Website bracking by getting information about them through their social media sites. I histing attacks to use date of social media. In attack is davabage launched where the passwords are cracked and prenitions are exploited and trace backs are convered up. A cyber rafe is a business which allows people to pay for access to the internet. nost cybricages provide computers, snacks, and benuages to their customus. Thise systems can be used to leak out information If you don't lig out pool properly. Also date and can be used to hack your regular and cause leaking of date. and logging off deleting prinate data after mage is very important.