Activity # 5
Cipher tent
129 57 40 1A C3 14 22 02 S0 20 99 07 SF F6 B3 3A
P key 10:
28 6D CC 3B
Ciphertent D Key 10 We get this
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

Round 9

Inverse shift Rows

103	3A	86	21		01 3A 8C 21
3E	BO	E2	33	1	
\8E	04	30	B8	1=)	30 B8 BE 04
AF	BL	40	16		BC 40 1C AF

Inverse Sub bytes

33 3E BO E2	109	A2	Fo	78
30 B8 BE 04 BC 40 1C AF	=)  66   8B	D1 9A	FC E6	3B 30 89/

-	Bdds	25	Ron	nd	key	Le 1	Ley 9
109	A2	Fo	73		/BF	115	A2 57
66	DI	fc	3B	(A)	182	45	A2 57 64 FB
8B		E6			BF	En	80 CB
X8		4			90	RO	B4 D8

2	1 B6	ET	51	86)
	84	88	98	CA
	34	60	66	FB
	E8	07	70	51/

Invene mex column

Result on neut page

-			
BF	50	AF	10)
187	20	49	07
172	AD	28	89
\2C	20	27	9 = /

Round 8:

Inverse shift Rows

Inverse Sub bytes

Bf 5c Af 10	F4 A7 1B 7c
D7 Bf 20 49	OD F4 S4 A4
28 89 72 AD	EE f2 1E 18
9f 2c 2D 27	6E 42 FA 30

00 F4 54 A4 EE F2 1E 18	Key 1.e koy8   8E FA E450   SI BB 3D 95   EF 40 70 10
\6E 42 FA 3D	\( \frac{\fin}}}{\fint}}}}}}}}}}{\frac{\fir}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fra

7A	50	££	2 A	1
Se	45	69	31	1
增	75	AS .	7	
101	B7	64	53	1
148	60	fc	51	1

Inverse mix column.

C111				-£			
119	11	13	9)	17A	50	ff	241
19	14	-11	13	TOA 5c	uf	19	01
113	9	14	11	l as	127	11.	53
111	13	0	14]	THE RESIDENCE OF THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER, THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER,	157	67	53/
TH-		7	195	145	60	+C	519

result is on next page

4F 85 53 43 39 06 0A 52 8E 93 38 57 50 F8 95 BD Round 7. Mer Inverse sht Rous store 153 43 4F. 85 52 39 DA OA 3B 57 8E 93 BD 5D F8 95 After Inverse Sub bytes 50 64 92 67 48 56 AS A3 49 DA E6 22 CD 8D E1 67

Adeling Round key se key 7 92 67 / CC 74 1E B2 64 50 5B A5 A3 D 96 EA 88 A8

DA E6 22 E1) AA 3F 31

8D E1 67 16 03 24 6A 48 49 DA CD | BD | 12 | C7 | 91 02 ED 13 C9 B4 1A 76 B4 TA 88 56/ E2 F1 After Mas Inverse Min column (14 8F CO 3E 93 A4 60 of 25 2B 24 32 77 E8 40 75

After Applying Round 6 We get glus 50 23 93 10 SF BD 91 20 52 32 18 Round 5? Afer Round 5 we get 08 EF B2 54 6C 03 20

Round 4: Road 4 me get this 20 78 99 48 30 76 26 37 70 37 34 54 23 5B F1 Round 31 et this output. 43 DE 09 3D 16 57 08 F8 CO EB 75 FE 62 C8

we get Round 2 1 round 2 00 59 15 58 D4 136 07 62 10 08 CE T.8 BA 8B Round 1 Round 1 ne jet FB 9F AOT 2 F 93 92 38 A+ C7 20 CB 23 #2

Round O:

After inverce shift Roms 63 EB AS 9F 25 92 Co AF C7 AB 30 A2 2B, 20 CB

Ater bytes. Sub 30 GE 47 00 74 22 4E 1-F 02 08 3] 13 IA, 54 59 OB

After Adding Veg se Roundo We get Mis 4E 20 54 4f 77 BE 69 68 6F 65 65 20 1 his , 13 One Joins Result