

- ♦ Firstly we assign ASCII code to particular alphabet of msg
- ♦ Lets suppose Message = "HELLO"
- ♦ Assign ASCII value

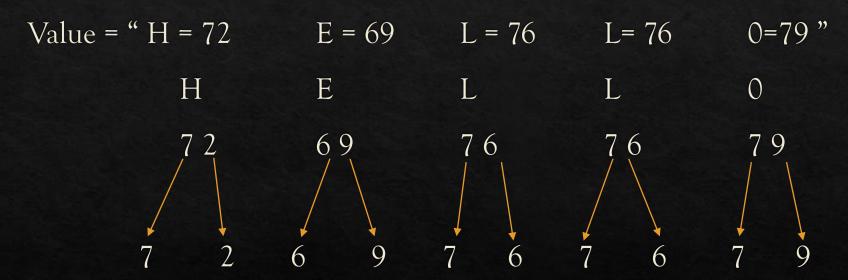
Like

$$H = 72$$
  $E = 69$   $L = 76$   $L = 76$   $0 = 79$ 

Decimal	<b>ASCII Character</b>		
65	Α		
66	В		
67	С		
68	۵		
69	Е		
70	F		
71	G		
72	Н		
73			
74	J		
75	K		
76	L		
77	М		

Decimal	<b>ASCII Character</b>		
78	N		
79	0		
80	Р		
81	ď		
82	R		
83	S		
84	Ţ		
85	U		
86	٧		
87	W		
88	X		
89	Υ		
90	Z		

♦ Now break these ASCII value into 2 parts



Add 30 in each number

So number = 37, 32, 36, 39, 37, 36, 37, 36, 37, 39

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Number = 37, 32, 36, 39, 37, 36, 37, 36, 37, 39

Add length of the key
Here our keyword is "HELLO"
SO, length is = 5, add 5
Now these number becomes
New Number =
42,37,41,44,42,41,42,41,42,44
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 $Raw4 = \{4,28,6,9\}$ 

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New Number =42,37,41,44,42,41,42,41,42,44

Takes number 1 by 1 and create a 4 x 4 matrix which is shown in the table

Here our 1<sup>st</sup> num is = 47

So, plot the 4 X 4 just like that after plotting its horizontal addition or vertical addition is equal to 47

Raw1 = {27,1,12,7}

Raw2 ={11,8,19,2}

Raw3 ={5,10,3,29}
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27	1	12	7	=47
11	8	26	2	=47
5	10	3	29	=47
4	28	6	9	=47
45	47	40		

#### Mixed column

Row1 = {27,1,12,7} Row2 ={11,8,19,2}

Row3 ={5,10,3,29}

Row4 ={4,28,6,9}

Select 1 value in every column

#### <u>Selecting</u>

Row1 = index [0]

Row2 = index [2]

Row3 =index [3]

Row4=index [1]

- ♦ After that combine the values and display the output
- ♦ For decryption use these steps in recursive way so you can find your desired plane text.

# Remind me in your precious prayers Thank you