

CODING DECODING



9th | 10th



Surabhi Gangwar
B.tech and M.tech



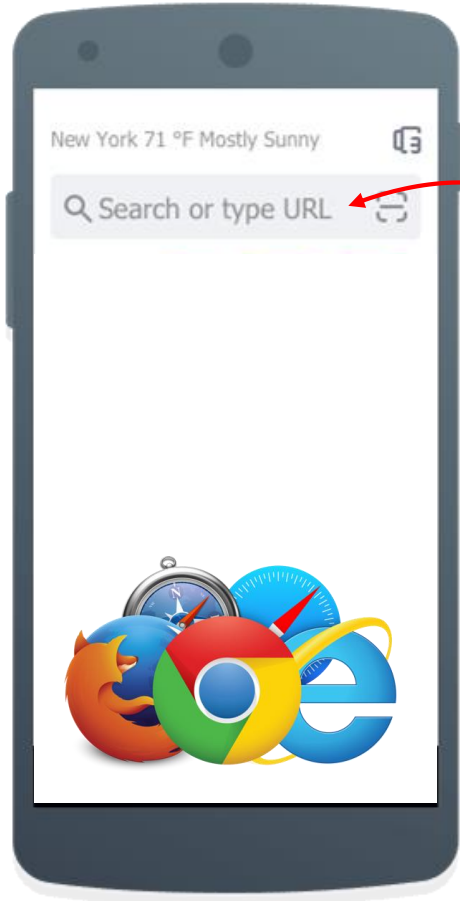
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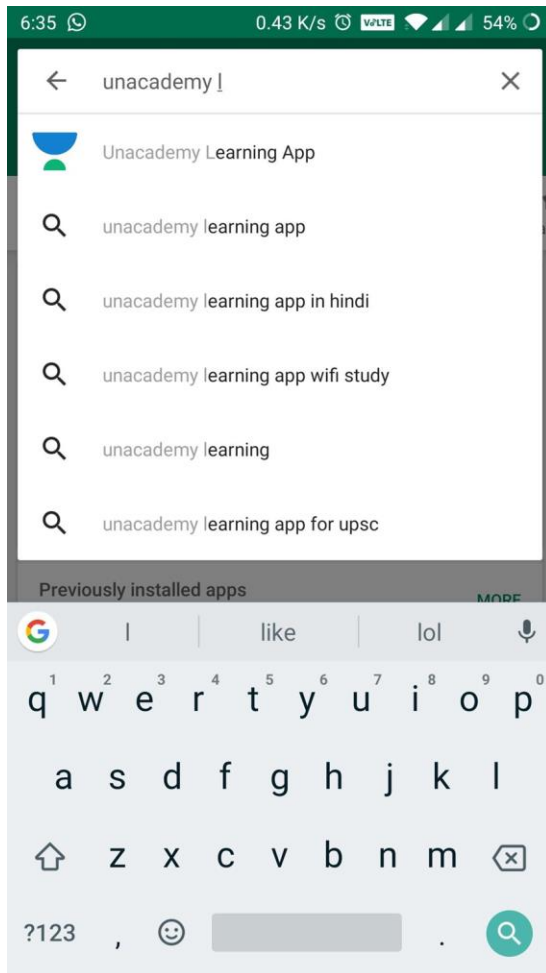
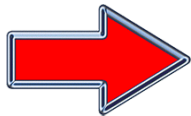


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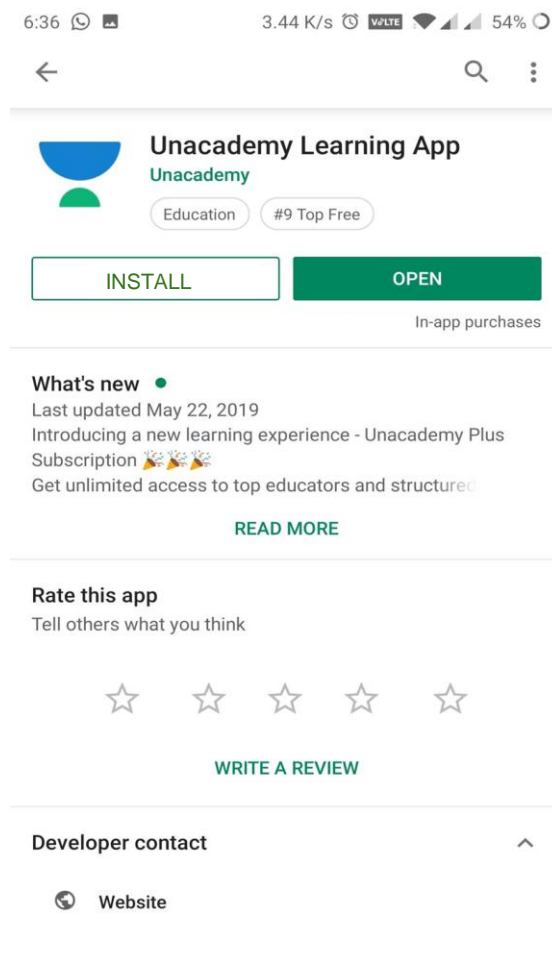
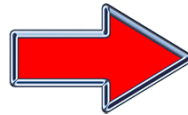


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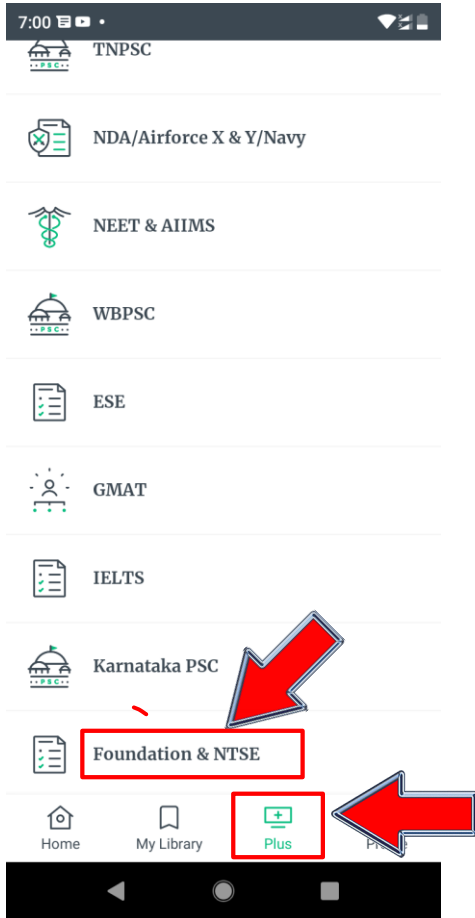
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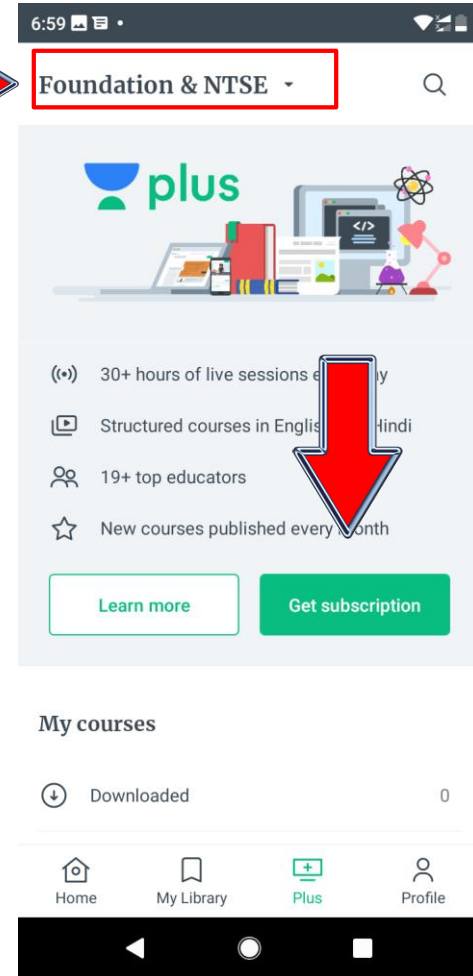
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Step 3



Step 4



Step 5

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CODING - **DE**CODING





INTRODUCTION

Coding is a method of sending a message to the receiver, such that the third person doesn't know about it. **Code language** is formed by **certain rules & rules & patterns**. To know this language following certain rules is called 'Decoding'.





TYPES OF **CODING** - **DECODING**:

- i) Letter - Letter coding ✓
- ii) Letter - Number coding ✓
- iii) To code some objects in puzzle form ✓
- iv) To code as per the table form/column form ✓





Alphabet in order:

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26

COVER

$$3 + 15 + 22 + 5 + 18$$

$$8 + 18 + 37$$

$$26 + 37$$

$$= 63 //$$

BASIS

$$2 + 19 + 9 + 19$$

$$20 + 30$$

$$= 50$$



Example

If any code language VOYAGE is coded as FIBAPX how is **CROWN** coded in that language

CROWN
↓ ↓ ↓ ↓ ↓
DTPYO

a) OXPTD

b) DTPYO

c) OYPTD

d) DTPXO

VOYAGE
↓ ↓ ↓ ↓
XPABIF



Example

In a certain code, **MONKEY** is written as **XDJMNL**, How is **TIGER** written in that code ?

TIGER

Diagram illustrating the letter mapping for TIGER:

- T → D
- I → R
- G → F
- E → H
- R → S

a) QDFHS

b) SDFHS

c) SHFDQ

d) UJHSF

MONKEY XDJMNL

Diagram illustrating the letter mapping for MONKEY:

- M → X
- O → D
- N → J
- K → M
- E → N
- Y → L



Example

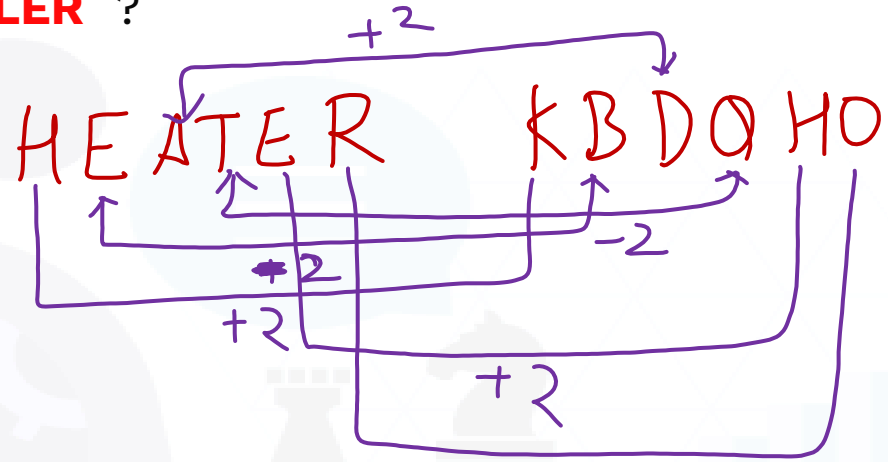
In a certain code, **HEATER** is written as **KBDQHO**, How will you encode **COOLER** ?

a) ALRIHV

b) FLRIHO

c) FLIRHO

d) None of these



COOLER
FLRIHO





Example

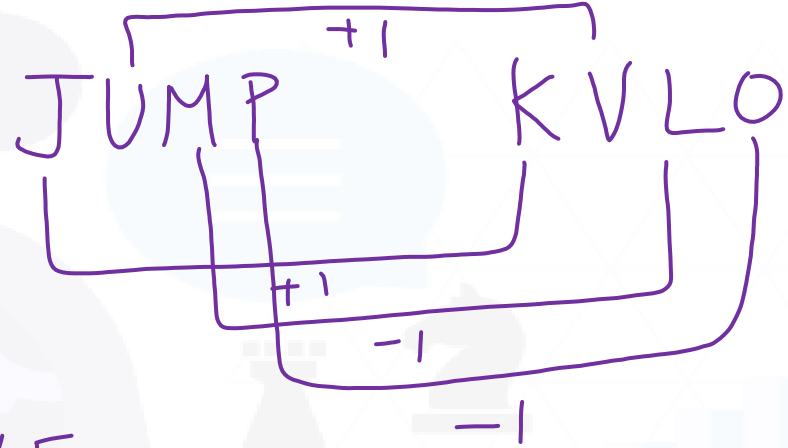
If **JUMP** is coded as **KVLO** then **GIVE** will be coded as :

a) HHWD

b) HIUE

☒ c) HJUD

d) HJVD



GIVE
↓ ↓ ↓ ↓
H J U D





Example

If **D = 4** and **COVER = 63**, then **BASIS** = ?

a) 49

☒ b) 50

c) 54

d) 55



Example

In a certain language, **tir** **me** **sac** means **green and tasty**, **dic** **sac** **for** means **tomato is green**, **voc** **tir** **for** means **food is tasty**. Which of the following does mean tomato is tasty in that code ?

☒ a) for tir dic

☐ b) dic for sac

☐ c) tir me for

☐ d) None of these

Sac - green

Jor - IS

Tir - tasty

me - and

Voc - food

dic - tomato





Example

In a certain code **K**A**M**A**L** is written as **29894**, **V**I**J**A**Y** is written as **35196** then the word **V**I**M**A**L** will be coded as

a) 29196

✓ b) 35894

c) 35194

d) 35196

A → 9

K = 2

M → 8

L = 4

V = 3

I = 5

J = 1

Y = 6

3 5 8 9 4



Example

Directions : In the following questions, two columns I and II have been given. In column I few words are given and in column II their codes have been given using a particular rule. The order of the smaller letter have been placed in jumbled up form. You have to decode the language and choose the alternative which is equal to letter asked in the question.

IM = ~~IM~~
MOR = X Y C
OR = Y C
R = C
O = Y

Column I	Column II
1. DESIGN	a. uklbjz
2. INFORM	b. cbxkay
3. MOTHER	c. ygzwxj
4. RIGHTS	d. bjucgw
5. TAILOR	e. wcpybv
6. GARDEN	f. vzcjlk

IM = kb
N = K
I = b





Example

What is the code for letter **N** ?

a) u

☒ b) k

c) c

d) g





Example

What is the code for letter **F** ?

a) i

b) b

c) q

d) g





Example

What is the code for letter **O** ?

a) Y

b) k

c) v

d) c





Example

If TRANSFER is coded as RTNAFSRE, then **ELEPHANT** would be coded as

LEPEAHTN

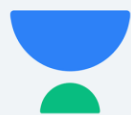
a) LEPEHATN

b) LEPEAHTN

c) LEEPAHTN

d) LEPEAHNT





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