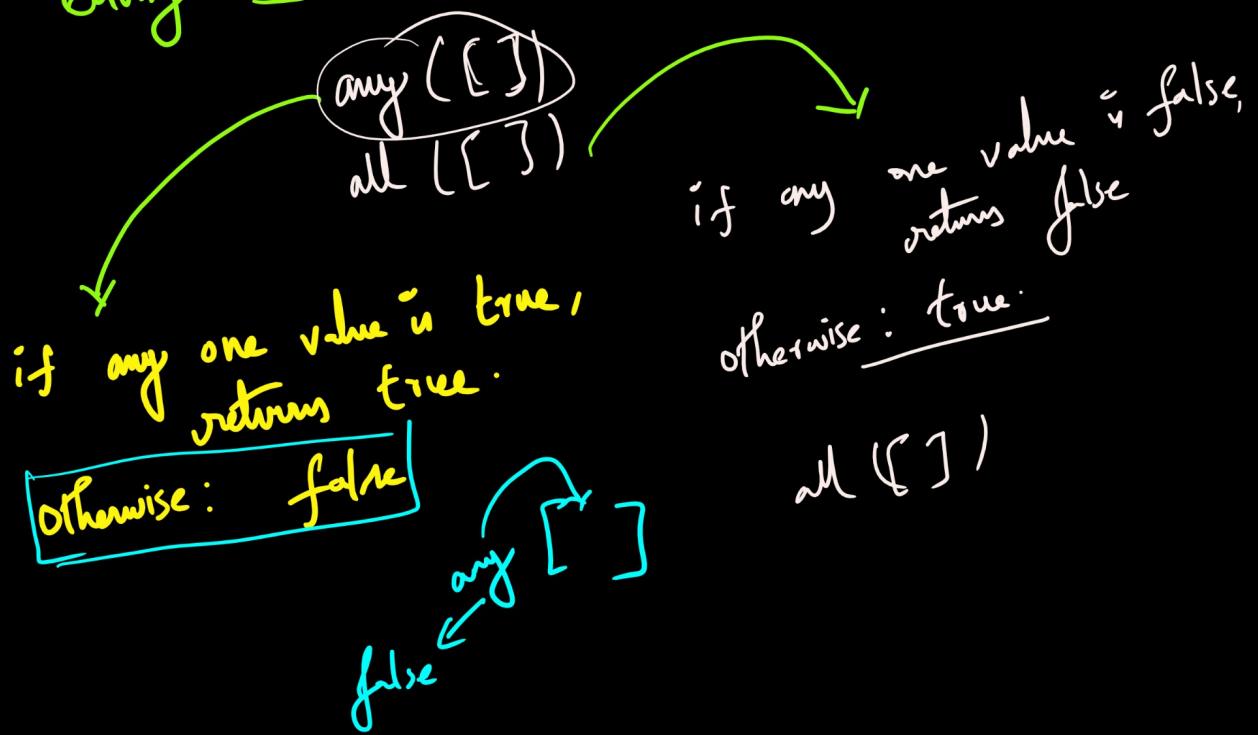


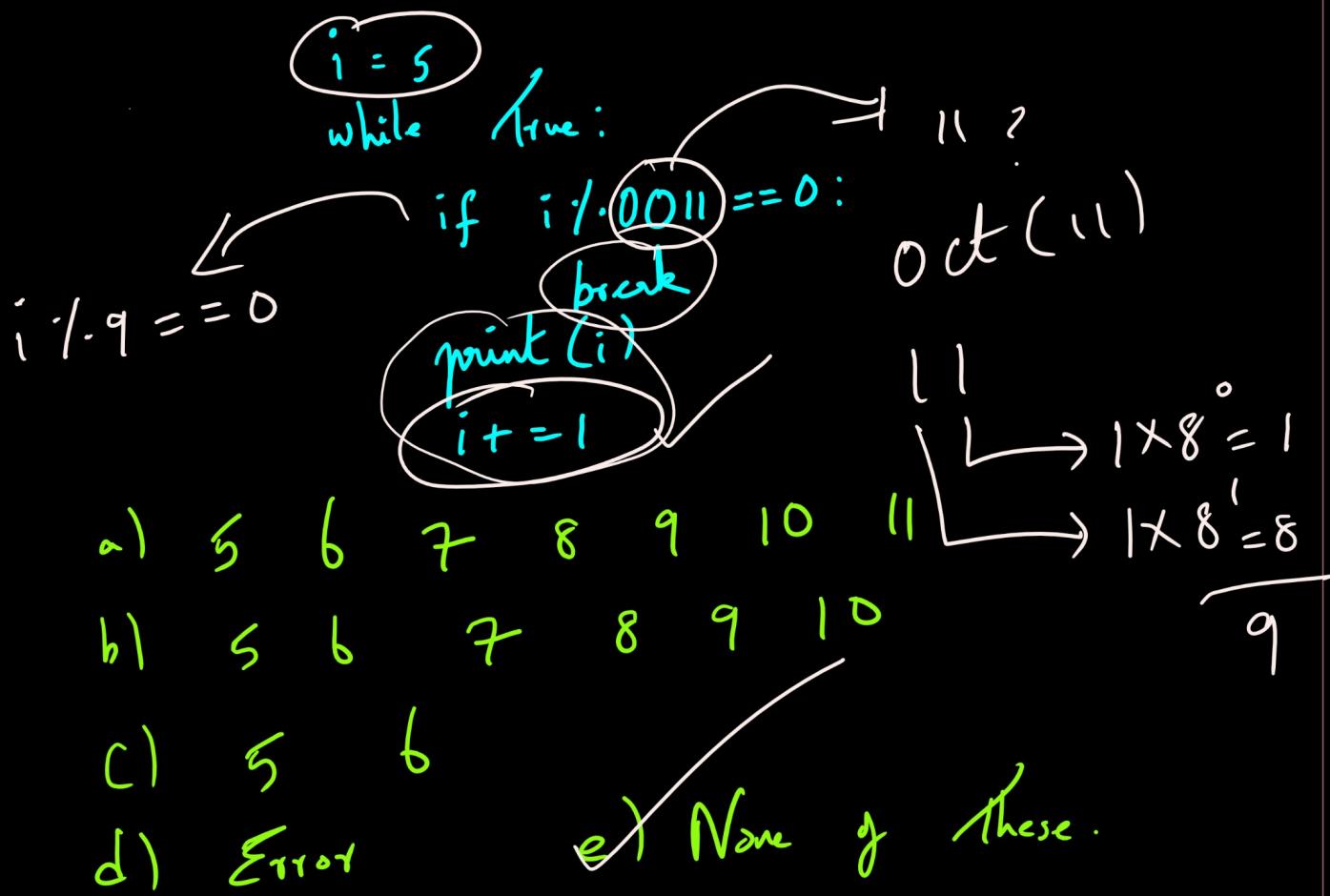
PYTHON PROGRAMMING

GATE DA/DSA

Problem Solving II :



28. What is the output for the following?



(5 6 7 8)

29. $i = 5$

while true:

if $i \% 109 == 0$:

break

print(i)

a) 5 6 7 8

b) 5 6 7 8 9

c) 5 6 7 8 9 10

d) None of These. (Syntax Error)

Octal doesn't take digit 9.

30. What is the output ?

```
i = 1
while True:
    if i % 2 == 0:
        break
    print(i)
    i += 2
```

1 3 5 7 9 11

a) 1

b) 1 2

c) 1 2 3 4 5 6 ...

d) 1 3 5 7 9 11 ...

31. Predict Output :

```
i = 1
while False:
    if i % 2 == 0:
        break
```

↓

print(i)
 $i += 2$

a) 1 b) 1 3 5 7 . . .

c) 1 2 3 4 . . . d) None of
these.

No output

32. What is the output?

$i = 0 \leftarrow 0$

while $i < 5 : 0 < 5, i < 5$

print(i) 0 1 2

$i += 1 \not\approx 3$

if $i == 3 :$

break

else:

print(0)

- a) 0 1 2 0
- b) 0 1 2
- c) Error
- d) None of These.

33. What will be the output?

$i = 0$ 0

While $i < 3$:

 print(i) 0 1 2

$i += 1$

else: 0 1 2 0

 print(0) 0

a) 0 1 2 3 0

b) 0 1 2 6

c) 0 1 2

d) Error.

34. What is the output?

$x = "abcdef"$

while i in x:

 print(i, end="")

a) a b c d e f

b) abcdef

c) i i i i i i

d) Error

e) None of these.

35. Predict output:

$x = "abcdef"$
i = " "
while i in x:
 print(i, end = "")

- a) i i i i i . . .
- b) a b c d e f
- c) abcdef no output
- d) Error None of these.

36. What will be output?

$x = 'abcd'$ {0, 1, 2, 3}
for i in range(len(x)):
 print(i.upper())
print(x) 0.upper

- a) A
 B
 C
 D
ABCD

- b) A
 B
 C
 D
abcd

- c) None of These
d) Error.

37. $x = "abcd"$

for $i \in x$:
 $\text{print}(i.\text{upper}())$

$\text{print}(x)$

a) A
B
C
D
abcd

b) A
B
C
D
ABCD

c) Error

d) None.

38.

$x = "abcd"$

for
print(+, end='')

i in

2
 $x = "a"$

print(x)

(0, 1, 2, 3)
range(len(x))
1
1

a, a a a

a) a

b) abcd abcd abcd

c) a a a a

d) ✓ none of the above

a

a

39. Predict Output

$x = 'abcd'$

for i in range(len(x)):

 print(x[$\leftarrow i$]) → abcd

$x = 'a'$ → a
ab cd ab^acd abcd

a) abcd

b) a

c) a b a a

d) Error

e) None ↗

abcd
a
a a

40.

x = d[i]

in

x

print(i)

won't work

a) 1 2 3 } *✓ Error*

b) 1
2
3

d | 123

41.. *d = {0: 'a', 1: 'b', 2: 'c'}*

for i in d: *print(i)*

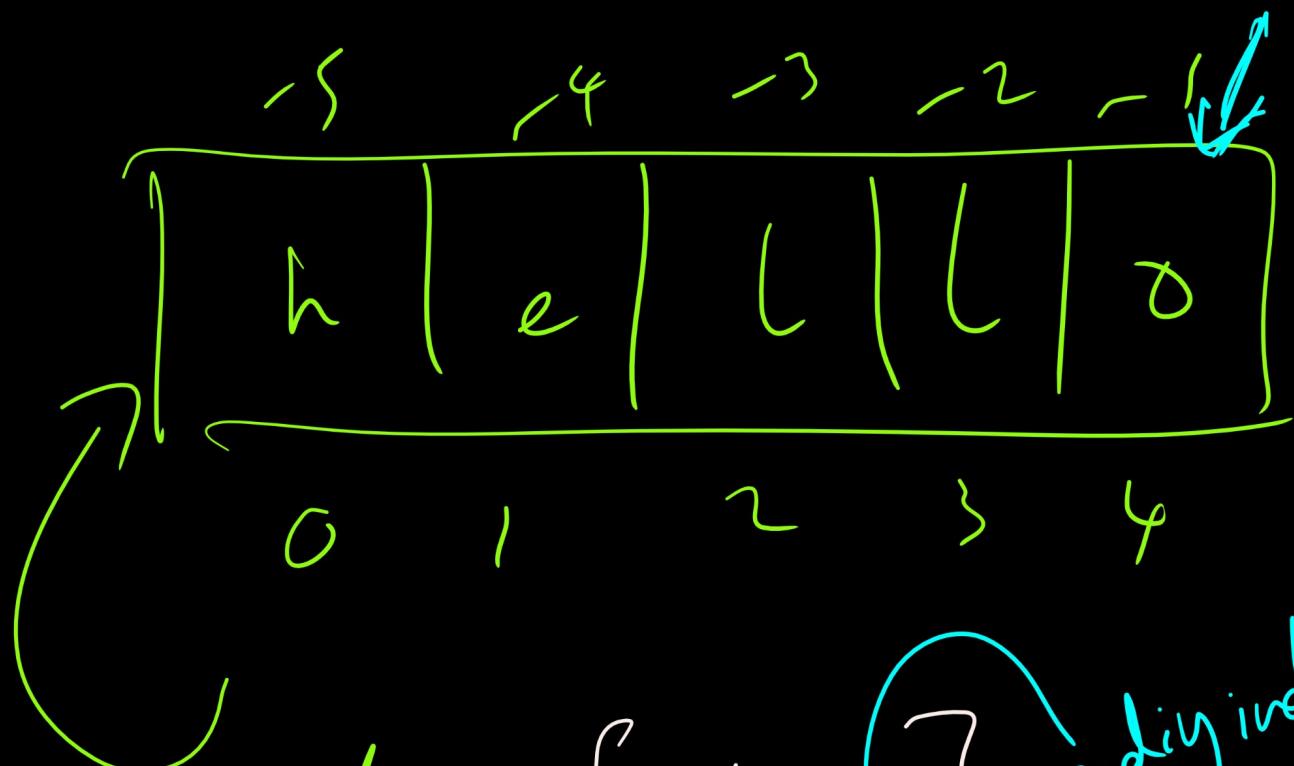
list -
it will print
keys only

- a) a b c
 b) 0 1 2
 c) (0, a) (1, b) (2, c)
 d) Error
 e) None of the above.

42. $\text{str1} = \text{'hello'}$ $\begin{array}{c} \rightarrow \\ \text{hello} \\ \text{01234} \end{array}$
 $\text{str2} = \text{' '}$
 $\text{str3} = \text{'world'}$
 $\text{str1}[-1:]$

- a) Ollleh c) h
 b) hello d) Error

f | None



str[-1 :]

start index

end index

step size

1

0

str[-1 : :-1]

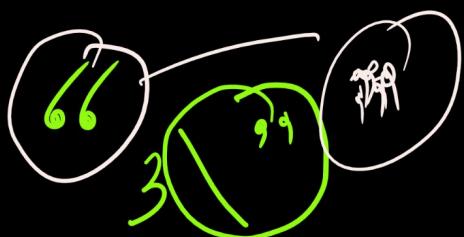
olleh

43. Which of the following
will be an error?

a) "Once upon ^ time . . . ,

she said."

Please ^ me Colab



44. `print('new'\n'line')`

Output _____

- a) Error
- b) new line
- c) new
line
- d) line new
- e) None of these.

45. `printf("%\nhello\nWorld")`

a) hello
world

b) \nhello
world

c) \nhello
\nworld

d) \nhello\nworld

46. `0xA + 0xB + 0xC`

a) 0xA0xB0xC →

10 + 11 + 12

b) Error

c) 0xAB C

d) None of these (33) 33

0 - 9, 10 - A
 11 - B
 12 - C
 13 - D
 14 - E
 15

Q47.

```

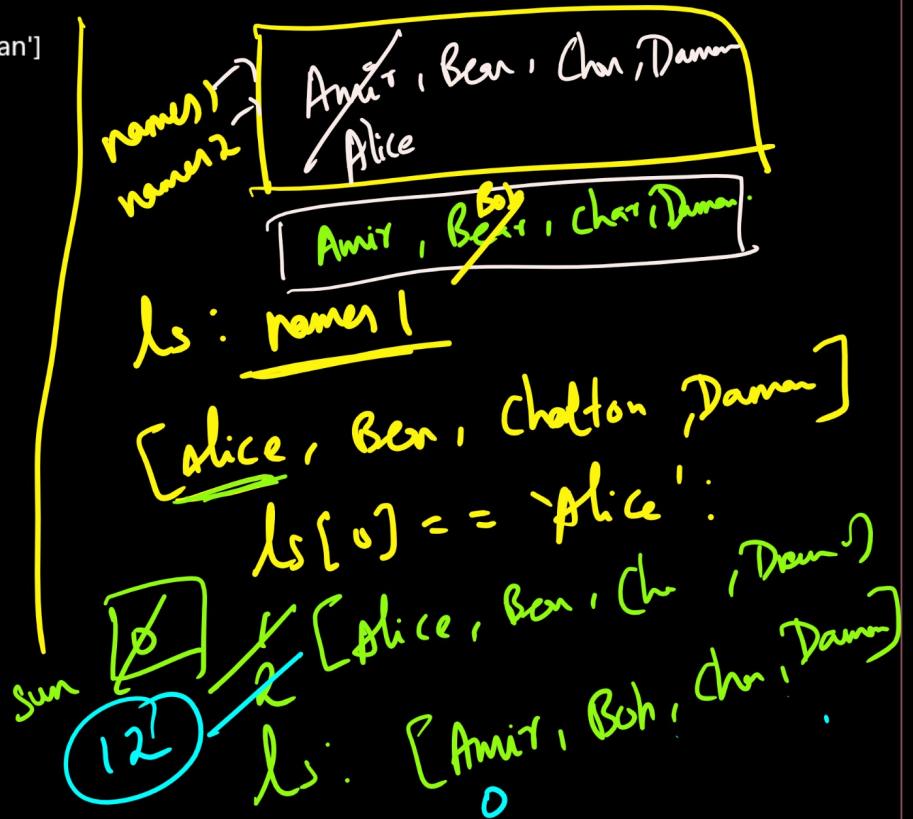
names1 = ['Amir', 'Bear', 'Charlton', 'Daman']
names2 = names1
names3 = names1[:]

names2[0] = 'Alice'
names3[1] = 'Bob'

sum = 0

for ls in (names1, names2, names3):
    if ls[0] == "Alice":
        sum+=1
    if ls[1] == "Bob":
        sum+=10

print(sum)
    
```



Q48. What will be the output?

```

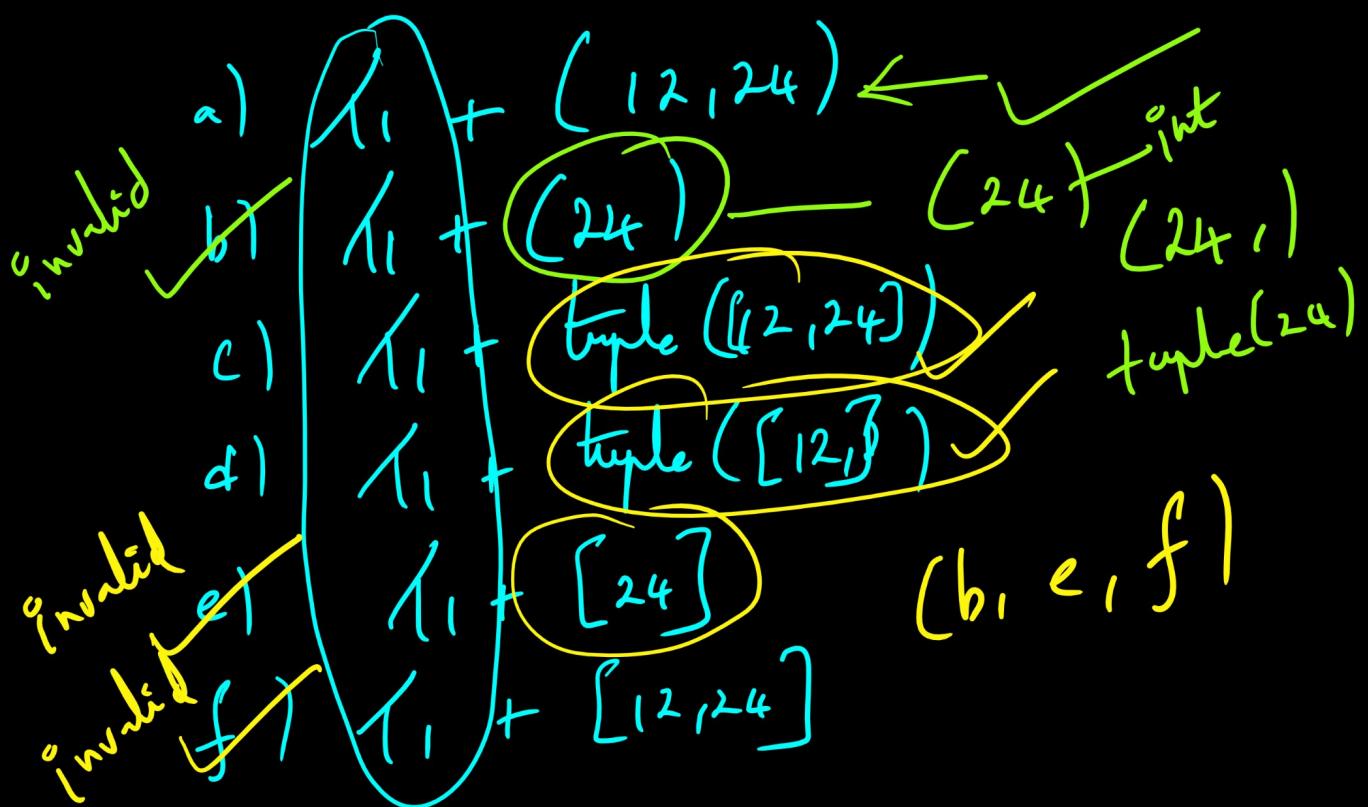
names1 = ["Vanya", "Viky", "RBR"]
names1[-1][-2] = 'B'
    
```

Final state of names1: ["Vanya", "Viky", "BR"]

Q49. Clear() method is used to delete the dictionary.



Q50: Imagine you are having tuple t_1 . Which of these is invalid operation.



51. To create an empty dictionary,

- a) $di = \{\}$ b) $di = ()$
c) $di = dict()$ d) $di = []$

Functions

Recursive function

Q2. Which is valid?

a) $a - b - c = 1,000,000$

b) $ab - c = 1000,000,000$

~~c) $a \cap b \cap c = 1000,000,000$~~

~~d) $a, b, c = 1000, 2000, 3000$~~

~~e) $a, b, c = (1000, 2000, 3000)$~~

$a = 1000, b = 2000, c = 3000$

Q

both are valid.

A) $a = \{1, 2, 3\}$

B) $a = \{(1, 2, 3)\}$

$$\begin{array}{l}
 \text{a, b} = 1, 2, 3 \\
 \text{a, b, c} = 1, 2, 3 \\
 \text{a, } *b = 1, 2, 3 \\
 \text{d, } *a, b = 1, 2, 3, 4, 5 \\
 \text{e, } *a, *b, c = 1, 2, 3, 4, 5
 \end{array}$$

$*a, b, c = [1, 2, 3, 4, 5, 6]$
 xat b, c $b = 5$
 $c = 6$

$a = [1, 2, 3, 4]$
 $a, *b, c = (1, 2, 3, 4, 5, 6)$
 $a = 1$
 $b = [2, 3, 4, 5]$ $c = 6$

53. $t_1 = (23, 24, 25, 5, 6, 5)$
 $\text{print}(t_1[0] + t_1.\text{index}(5))$

- a) 28
- b) Error
- c) None of these
- d) 26

e) 22

f) 27

54. $t_1 = \left(\begin{matrix} 0 & 1 & 2 & 3 \\ 1 & 2 & 0 & \text{'false'} \\ 2 & 1 & 2 & \text{False} \\ 3 & 4 & 5 & \left[\text{False} \right] \\ 4 & 5 & 6 & \{ 12, 10, 12.0 \} \end{matrix} \right)$

$\text{len}(t_1) \rightarrow 6$

$\text{len}(t_1[5]) \rightarrow$ can't have mutable object

dict \rightarrow you can't have value at all.

set \rightarrow you can't have value at all.

$t_1[5] \rightarrow \{ 12, 10, 12.0 \}$
 $t_1[5] = \{ 12, 10 \}$

$\text{ker}(L_1(s)) \cap$

(2)
