print (a) — # value of object 'a' i.e 9248

print (type (a)) — # type of obj 'a' i.e <class 'int'>

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Find outputs:

a = "Rama Rao"

print (a) — # Value of obj 'a' i.e Rama Rao.

print (type (a)) — # <class 'str'>

print (id (a)) — # Address of object a

b = 'Hyd'

print (b) — # Value of obj 'b'. i.e 'Hyd'

c = "Hyd is green city.
Hyd is hitec city
Hyd is beautiful city."

print (c) — # prints same output

Index demo program:

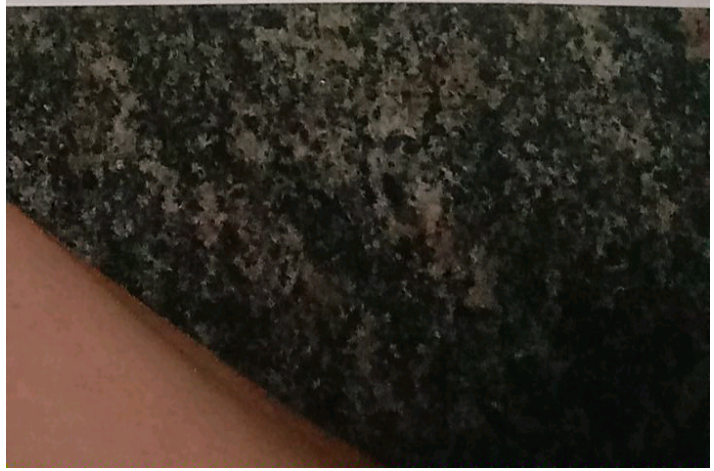
a = 'Hyd'

print ('how to print 'H' of obj 'a') - print instead (a[0])

print ('how to print 'y' of obj 'a') - (a[1])

print ('how to print 'd' of obj 'a') - (a[2])

print (a[3]) — # Invalid syntax as Index is only 0, 1, 2



print (how to print 'd' of obj 'a') -# print (a[-1])
print (how to print 'y' of obj 'a') — # print (a[-2])
print (how to print 'H' of obj 'a') - # print (a[-3])
print (a[-4]) — # Invalid Syntax as there is out of index.
print (a[0] == a[-3]) — # Yes
a[2] = 'c' — # Syntax error they are immutable.
print (25[0]) — # Error no description
print ('25'[0]) — # 2 as index of 2 is 0
print (True[1]) — # Error
print ('True'[1]) — # r as index of 1 is r.

Find output :

a = 'Hyd'
print (a * 3) — # HydHydHyd as * indicates repetation
print (a * 2) — # HydHyd.
print (a * 1) — # Hyd
print (a * 0) — # Empty string
print (a * -1) — # Empty string
print ('25' * 3) — # 75
print ('25' * 3) — # 252525
print ('25' * 4.0) — # Error.
print (3 * 'Hyd') — # HydHydHyd
print ('25' * True) — # 25

a = 'Hyd'
print (a, id(a)) — # Hyd, address of a.

a = a*3 —— # HydHydHyd , Address [Hyd] [HydHydHyd]

print (a, id(a)) —— # HydHydHyd , Address of obj a

len() function :

print (len('Hyd')) —— # 3 'H', 'y', 'd'

print (len('Rama Rao')) —— # 8 (including space)

print (len('9247')) —— # 4

print (len ('')) —— # Empty string (0)

print (len(' ')) —— # 1 space identified

print (len(689)) —— # Error not a string where int has no length

Findoutputs :

a = '''' Hyd ''' —— # ~~Error~~ Excess opening Excess closing - error

print (a) —— # ' Hyd"

print (len(a)) —— # 4 5 as string also included with single quotes.

print (a[0]) —— # 'H'

Find outputs :

a = 'Sankar Dayal Sarma'

print (a[7:12]) —— # index 7 to 11 - Dayal

print [7:] —— # Dayal Sarma index 7 to end

print a [:6] —— # index 5 - Sankar

print (a[:] —— # Full string Sankar Dayal Sarma

print (a[::]) —— # a[:] Sankar Dayal Sarma

print (a[1:10:2]) —— # Index 1 to 9 step 2 - ak a

print(a[0: :2]) — # index 0 to end with step 2.
Snkr Dylsra

print (a[1: :2]) — # aa aaam

print (a[-5 :-1]) — # Sarm 5th index to last second.

print (a[: :-1]) — # Reverse string amraslay a D rakna

print (a[-1:-5 :-1]) — # last to 5th amra

print (a[3:3]) — # Empty string
a[3:3:1]

int() function:

print (10.8]) — converts float 10.8 to 10

print (int(True)) — converts bool to int 1

print (int(False)) — Converts bool to int 0

print (int ('25') — Converts string to int 25

print (int ('0075') — converts string to int 75

print (int (0B11010)) — Converts binary to decimal 26

1 1 0 1 0

16 + 8 + 2 = 26

print (int (0O 6247) — Converts octal to decimal binary

6 2 4 7
421 421 421 421
110 010 100 111

print (int (3+4j)) — Error complex cannot change to int object.

float() function:

print(float(25)) — converts int object 25 to float 25.0

print (float (False)) — Converts bool object False into float object 0.0

print (float('92')) — Converts string to float 92.0

print (float '36.4')) — Converts string '36.4' to float as 4

print (float (0B1010101)) — 85.0 in float changed from decimal

print (float (3+4j)) — Error as can't convert complex to float.

print (float ('Ten')) — Error can't convert string to float

str function :-

print (str (25)) — Converts 25 to '25'

print (str (10.5)) — Converts 10.5 to '10.5'

print (str (3+4j)) — Converts 3+4j to '3+4j'

print (str (True)) — Converts True to 'True'.

print (str (False)) — Converts False to 'False'.

print (str (None)) — Converts None to 'None'.

oct & hex functions :

print (oct (195)) — decimal 195 303

print (oct (0xA789) — 0o247691

A789 - decimal 42937

octal - 247691

Bool function (1) :

print (bool (0)) — false

print (bool (10)) — True as 10 is non zero

print (bool (-25)) — True as non zero

print (bool (0.0)) — False 0 is false always

print (bool (0.1)) — True

print (bool (0+0j)) — False both real & imag are 0

print (bool (10+20j)) — True.

print (bool (-15 j)) — True

print (bool (False')) — True

print (bool ('') — False (empty is false)

print (bool ('hyd')) — True.

print (bool (' ')) — True (space covered)

print (bool ('True')) — True.

print (oct (195)) # 00303

002562

12338

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Find outputs:

a = range (10, 50, 5) —# [10, 15, 20, 25, 30, 35, 40

print (type(a)) — # <class 'range'>

print (a) — # [10, 50, 5]

print (* a) — # Unpack elements (10, 15, 20, 25, 3 45]

print (id(a)) — # Address of object 'a'

print (len(a)) — # 8

print (*a [2:7], sep = ',') — # 20, 25, 30, 35

print (* a [::-1]) - (45, 40, 35, 30, 25, 20, 15, 10)

a[4] = 32 = # Error. Immutable

... (a*2) — # Error. (coz of duplicates gene