

Python objective type questions

N B Saudagar, Dept of ISE

Note: Don't copy paste these questions to check the output, instead type the whole program and execute

Thanks to Sindhu R Pai, Asst. Prof, Dept of CSE,PES University

Some of the questions are taken from question bank of Sindhu R Pai

What is the value of X ?

$$X = 2 + 9 * ((3 * 12) - 8) / 10$$

- a) 27
- b) 27.2
- c) 30.8
- d) None

Answer

27.2

What is the output of below code?

```
sep = "sep"
```

```
print(3,5,8,sep = sep, end = sep)
```

```
print(sep)
```

Answer:

3sep5sep8sepsep

What is the output of below code?

```
a = [10,[89,11],98,20,10,66,22]
```

```
b = a[1:9]
```

```
b[0] = 99
```

```
print(a is b)
```

```
print(a)
```

Answer:

False

```
[10,[89,11],98,20,10,66,22]
```

What is the value of x

```
x=3+5+(1+1)**2**2*3<<1>>1+3-1
```

```
print(x)
```

a)5

b)14

c) Error

d) None

Answer: 14

What is the output of below code?

```
a = [[],-1,-2.6,-3,-4]
```

```
i = 0
```

```
while(a[i]):
```

```
    print("a is a list");i += 1
```

Answer:

No output

Expression is False in the first iteration. Empty data structure is False.

What is the output of below code?

```
a = [-4,-3,-2,-1,0 ,1, 2]
```

```
i = -4
```

```
while i in a:
```

```
    print(i,end = ' ');i += 1
```

- A) Error, in cannot be used with while
- B) -4 -3 -2 -1 0 1 2
- C) -4,-3,-2,-1,0,1,2
- D) -4 -3 -2 -1

Answer:B) -4 -3 -2 -1 0 1 2

What is the output of below code?

```
print(chr(ord(chr(ord("a")+1))-1))
```

A) Error

B) o

C) a

D) 97

Answer: C) a

What is the output of `math.round(3.4)` in an interactive mode of Python3.x assuming `math` is imported?

- A) 4
- B) 4.0
- C) 3.0
- D) 3
- E) None of these

Answer: E) None of these

Error: `round` is not available in `math`

```
var_1=[34,23,120,45,120]  
var_1.pop(120)
```

What is the output of above code when executed in an interactive mode?

- A) No output
- B) Error
- C) 120
- D) 0

Answer: B) Error, there is no position 120 in the list

```
var_1=[34,23,120,45,120]  
var_1.pop()
```

What is the output of above code when executed in an interactive mode?

- A) No output
- B) Error
- C) 120
- D) 0

Answer: C)120 (pop() ,it removes the last element)

What is the output of below code.

```
num=23
```

```
if ++num:
```

```
    print(num)
```

```
    num=num+1
```

- A) 24 printed infinitely
- B) 23 printed infinitely
- C) 23
- D) Error
- E) 24

Answer: C) 23

What is the output of below code

```
A = [10,22,10,56,-21,-22,100]
```

```
A[-6:-3] = [20]
```

```
print(A)
```

A) Error

B) [10, 20, -21, -22, 100]

C) [20]

D) None of these

Answer: B) [10, 20, -21, -22, 100]

What is the output of below code

```
A = [10,22,10,56,-21,-22,100]
```

```
A[-6:-1:2] = [20,22,24,26]
```

```
print(A)
```

A) Error

B) [10, 20, -21, -22, 100]

C) [20]

D) None of these

Answer: A) Error

```
X = int('9A',16)  
print(X)
```

What is the value of X ?

- A) '154'
- B) 154
- C) 0
- D) 9A
- E) '9A'

Answer: B) 154

```
print(100//6%2-2**2**3)
```

Write the output.

Answer: -256

What is the output of below code?

```
while(1 & 1 and not False):
```

```
    print("inside while")
```

```
else:
```

```
    print("inside else")
```

Answer: “inside while” -- infinite loop. Expression is always True

What is the output of below code if the user enters 12 and 121 for a and b ?

```
a = input("enter the first number")  
b= input("enter the second number")  
if (a ^ b):  
    print("XOR operator")
```

Answer: Error

^ cannot be applied on strings

Pick the incorrect statement about List

A) immutable

B) mutable

C) B & D

D) Should have only unique elements

E) A & D

Answer:

E) A & D

What is the output ?

```
a=[34,56,False,0.0]
```

```
print(len(a))
```

a) 4

b) 5

c) Error

d) None

Answer a) 4

What is the output ?

```
a=[34,56,"False",0.0]
```

```
print(len(a[2]))
```

a) 4

b) 5

c) Error

d) None

Answer b) 5

Given `a=[34,56,False,0.0]`

Output of `print(len(a[2]))` will be

Answer: This code throws Error, `len()` function expects an iterable as argument

What gets printed?

```
print(print(print(end = ""),end = ""))
```

A) No Output

B) NoneNone

C) None

None

D) Error

Answer: B) NoneNone

print() function returns None after the execution.

How many times yes will be printed when the below code is executed?

```
for i in range(10, 21, 4):  
    if i % 5 :  
        print("Yes")
```

- A) 2 times
- B) 0 times
- C) Infinite times
- D) Code results in Error

Answer: A) 2 times

Given s1=[34,56,False,1]

How do you sort the given list in the descending order of elements

- A) s1.sort(reverse = True)
- B) s1.sort(reverse = False)
- C) s1.reverse(sort = False)
- D) None of these

Answer: A) s1.sort(reverse = True)

Given the below code, write the output.

```
s1=[34,56,False,0,True]
```

```
s2 = s1
```

```
s1.reverse()
```

```
print(s2)
```

A) [34,56,False,0,True]

B) [34,56,0,0,1]

C) [True,0,False,56,34]

D) [1,0,0,56,34]

Answer: C) [True,0,False,56,34]

Given `s1=[34,56,False,False]`
Output of `print(len(s1))` will be

- A) 4
- B) 3
- C) Error
- D) None

Answer: A) 4

What gets printed?

```
T1=[1,5,2]
```

```
i=0
```

```
for i in T1:
```

```
    pass
```

```
while(i<len(T1)):
```

```
    print(T1[i],end="")
```

```
    i=i+1
```

A) 152

B) 1

C) 012

D) 2

E) 5

Ans: D) 2

What gets printed?

```
T1=[1,5,2]
```

```
i=0
```

```
for i in T1:
```

```
    i=5
```

```
while(i<len(T1)):
```

```
    print(T1[i],end="")
```

```
    i=i+1
```

A) 5

B) Error

C) No output

D) 2

Ans: C) no output

What is the output of below statement?

```
s2= "work is worship"
```

```
a,b,c = s2.split()
```

```
print(a,b,c)
```

- A) ValueError
- B) [work is worship]
- C) work is worship
- D) 'work' 'is' 'worship'

Answer: C) work is worship

What is the output of `print(math.sin(math.pi/2))` ?

A) 1.0

B) 0

C) 0.0

D) Error

Answer: A) 1.0

What is the output of `print(round(234.738,-1))` ?

- A) 200
- B) 200.0
- C) 234.8
- D) 230.0

Answer: D) 230.0

Match the following operators to its notation

| | | | |
|----|-----|----|---------------------|
| 1. | : | a. | Membership operator |
| 2. | in | b. | Logical operator |
| 3. | not | c. | Bitwise AND |
| 4. | | d. | Bitwise OR |
| 5. | | e. | Slicing operator |

Answer: 1-e, 2-a, 3-b, 4-d

$s1=[23,11,9]$ and $s2=[23,10,9,22]$

For the given $s1$ and $s2$, match the operations with its output in interactive mode

| | | | |
|----|-----------|----|------------------------|
| 1. | $s1 < s2$ | a. | $[23,11,9,23,10,9,22]$ |
| 2. | $s1 > s2$ | b. | $[23,11,9]$ |
| 3. | $s1 + s2$ | c. | $[]$ |
| 4. | $s1 * 0$ | d. | True |
| 5. | | e. | False |

Answer: 1-e, 2-d, 3-a, 4-c

What is the output?

```
print("two","three","four")
```

- A) twothreefour
- B) two three four
- C) twothree four
- D) two threefour

Answer: B) two three four

What is the output of `21//3**3%7` in interactive mode of python3.x ?

- A) zero
- B) 3
- C) 0
- D) 3.6

Answer: C) 0

What is the output of `"('23'*2)"*3` ?

- A) 6 times 23 as a string
- B) Twice 23 and thrice `'23'*2` as a string
- C) 1 as an integer
- D) Thrice `('23'*2)` as a string
- E) 1.0 as a string

Answer: D) Thrice `('23'*2)` as a string

What are the two ways in which you can print the below line using print() ?

“Do you’ve python installed in your system?”

Answer:

```
print("\nDo you’ve python installed in your  
system?\n")
```

```
print('\nDo you\'ve python installed in your  
system?\n')
```

What is the output of below code?

```
a = 3
```

```
b = 9
```

```
if b % a == 0 :
```

```
    print("b is divisible by a")
```

```
elif b + 1 =10:
```

```
    print("Increment in b produces 10")
```

```
else:
```

```
    print("You are in else statement")
```

A) b is divisible by a

B) Error

C) You are in else

Answer: B) Error

Reason: $b+1=10$ assignment is not an expression. So cant be given for elif

What gets printed?

```
print("face" 'book')
```

Answer: facebook

Reason: String literals separated by white spaces are allowed and they are concatenated

What is the output ?

```
a=[4,5,6,7]
```

```
b=[8,9,10]
```

```
a.append(b)
```

```
print(a.pop())
```

a)7

b)10

c)[8,9,10]

d)None

Answer

[8,9,10]

What is the output of the following print statements?

```
a=["10","20","30"]
```

```
a=a[0]
```

```
print(int(a))
```

```
b=[10]
```

```
print(int(b))
```

- a) 10 and error
- b) error and error
- c) 10 10
- d) none

Answer

10 and error

What is the output ?

```
a="3.142"
```

```
print(int(a))
```

a) 3.142

b) 3.14

c) Error

d) 3

Answer

Error : invalid literal for int() with base 10

What is the output ?

```
a="3.142"
```

```
print(float(a))
```

- a) Error
- b) 3.142
- c) None

Answer : 3.142

What is the output ?

```
res=3-5*(1+5)**4**5%4&3<6%4*(6+4)%4  
print(res)
```

- a)True
- b)False
- c)3
- d)Error

Answer b) False

What gets printed ?

```
print("4"+5)
```

a) Error

b) 45

c) 9

Answer a) Error

What gets printed ?

```
print(int("4")+5)
```

a) Error

b) 45

c) 9

Answer c) 9

Identify the type of error

1. `print("hello)`
2. `average=a+b+c/3;`
3. `a=10;b=0;print(a/b)`

Answer

- 1) Syntax error
- 2) Logical Error ,average of three numbers
`average=(a+b+c)/3`
- 3) Runtime error, division by zero

What is the output ?

```
a=[1,2,3,4]
```

```
a.shuffle()
```

```
print(a)
```

a) [1,2,3,4]

b) [2,1,3,4]

c) Error,

Answer c) Error, 'list' object has no attribute 'shuffle'

x = 10

x == 10

What will the second line evaluate to?

(a) False

(b) 10

(c) True

(d) None of the Above

Answer : C)True

Which of the following is *not* a characteristic of lists in Python?

- (a) mutable
- (b) variable length
- (c) may contain mixed-type elements
- (d) Nonlinear

Answer:

- (d) Nonlinear