

practice questions by Chatgpt

```
x = 10 #Create a variable x = 10 and print its type.  
type(x)  
int  
S = "Python" #take a string s = "python" → print the first and last character.  
S[0:6:5]  
'Pn'  
S1 = "Srushti" #Slice the string "Srushti" to print "hti".  
S1[4:7]  
'hti'  
num = [1,2,3] #Create a list: nums = [1,2,3] and add the number 4 to the list.  
num.append(4)  
print(num)  
[1, 2, 3, 4]  
num1 = [5,2,5,8,5] #Count how many times 5 appears in this list: [5, 2, 5, 8, 5].  
num1.count(5)  
3  
a=[10,20,30] #Make a copy of a list a = [10,20,30] into variable b  
b=[]  
b=a.copy()  
print(a)  
print(b)  
[10, 20, 30]  
[10, 20, 30]  
x = "123">#Convert the string "123" into an integer and add 10 to it  
y = int(x)  
x1 = y + 10
```

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print (x1)
133
S2 = "GenerativeAI" #Print the length of the string "GenerativeAI"
len(S2)
12
Name = "Srushti"#Create variables: name, age, city, and print them in
one line using f-string
Age = 29
City = 'Florida'
print(f'Hi i am {Name} i am {Age} old and i live in {City} thank
you' )
Hi i am Srushti i am 29 old and i live in Florida thank you
Name1 = 'Maggie' #Create variables: name, age, city, and print them in
one line using f-string
Age1 = 26
City1 = 'Hyderabad'
print(f'Hi my sister is {Name1} is he currently {Age1} old and she
lives in {City1}' )
Hi my sister is Maggie is he currently 26 old and she lives in
Hyderabad
Text = 'agentic-ai'#Given text = "agentic-ai" slice "agentic" only.
Text[0:7]
'agentic'
text1 = 'learning'#Reverse a string "learning" using slicing
text1[::-1]
'gninrael'
L = [1,2,3]#Create a list a = [1,2,3] → append 7, append "hello",
then print the list.
L.append(7)
L.append('Hello')
print(L)
[1, 2, 3, 7, 'Hello']
L1 = [1,2,2,3,3,3]#Let L1 = [1,2,2,3,3,3] → print how many times each
unique element occurs.
```

```
L1.count(1)
1
L1.count(2)
2
L1.count(3)
3
i = 45.9 #Convert "45.9" into a float → add 10 → print result.
j = int(i) + 10
print (j)
55
S3 = 'SrushtiK'#From string "SrushtiK" print only even index
characters.
S3[0:8:2]
'Suhı'
S1 = 'Srushti'#From string "Srushti" print every 3rd character.
S1[0:7:3]
'Ssi'
l2 = ['a','b','c']#For list data = ['a','b','c'] → copy it → append
'd' to copy → show original list remains unchanged
l3 = []
l3=l2.copy()
l3.append('d')
print(l2)
print(l3)
['a', 'b', 'c']
['a', 'b', 'c', 'd']
l4 = [10,20,30,40,50]#check length of list [10,20,30,40,50]
len(l4)
5
a1 = [10,20,30,40,50,60]#a = [10,20,30,40,50,60] → print elements from
index 1 to 4
```

```

a1[1:4]
[20, 30, 40]

S5 = '10'#Take input as "10" (string) → convert to integer → double it
→ convert back to string
S6 = int(S5)
S7 = S6 * 2
S8 = str(S7)
print(S8)

20

S1 = 'Srushti'#name = "Srushti" → slice to print "rst".
S1[1:8:2]

'rst'

l4 = [1,2,3,4,5] #Rotate a list: [1,2,3,4,5] to [5,4,3,2,1] using
slicing.

l4[::-1]

[5, 4, 3, 2, 1]

marks = [90, 85, 90, 95, 90]#Given marks = [90, 85, 90, 95, 90] →
count how many times all value appears using count()

marks.count(90)

3

marks.count(85)

1

marks.count(95)

1

```

Mock test 1 by chatgpt

```

#SECTION A – Strings & Slicing (5 questions)

S = 'Srushti'#S = "Srushti" → slice and print "rus"

S[1:4]

'rus'

P = 'PythonCourse'#Slice "PythonCourse" to print "honC"

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P[3:7]
'honC'

d = 'developer'#From "developer" print "velo"
d[2:6]
'velo'

l = 'learning'#From "learning" print the last 3 letters using slicing.
l[5:8]
'ing'

b = 'banana'#From "banana" print "nan" using slicing.
b[2:5]
'nan'

#SECTION B – Typecasting & Operators (5 questions)

i = '200'#Convert "200" into an integer and divide it by 3 using floor division.
y = int(i)
res = int.__floordiv__(y,3)
print(res)

66

i1 = '12.5'#Convert "12.5" into a float and multiply it by 4
y1 = float(i1)
res1 = float.__mul__(y1,4)
print(res1)

50.0

i2 = 50 #Convert 50 to a string and add "kg" to the end
y2 = str(i2)
res2 = str.__add__(y2,'kg')
print(res2)

50kg

a = 5#Find the result of 5 ** 3
b = 3
int.__pow__(a,b)

125
```

```
a1 = 7 #Using true division, divide 7 by 2 and print the result.  
b1 = 2  
int.__truediv__(a1,b1)  
3.5  
#SECTION C – Lists & Methods (7 questions)  
l = [10,20,30] #Create a list [10, 20, 30] and append the value 40.  
l.append(40)  
print(l)  
[10, 20, 30, 40]  
l1=[1,2,3] #Make a copy of the list [1, 2, 3] into a new variable  
l2=l1.copy()  
print(l2)  
[1, 2, 3]  
l3 = [10, 20, 30, 40] #Find the index of value 30 in the list [10, 20,  
30, 40]  
l3.index(30)  
2  
l4 = [5,6,7,8] #Delete the element at index 2 from the list [5, 6, 7,  
8]  
del l4[2]  
print(l4)  
[5, 6, 8]  
l5 = [100, 200, 300] #Clear the list [100, 200, 300]  
l5.clear()  
print(l5)  
[]  
a1 = [1,2,3] #Given a = [1, 2, 3], store a copy in another list and  
append "hello" only to the copy.  
a2 = a1.copy()  
a2.append('hello')  
print(a1)  
print(a2)  
[1, 2, 3]  
[1, 2, 3, 'hello']
```

```

a3 = [10,20,30,40,50]#Slice the list [10,20,30,40,50] to get [20,30,40]
a3[1:4]
[20, 30, 40]

lst = [1,2,3,4,5]#Rotate the list [1,2,3,4,5] to [5,1,2,3,4] using slicing.
r = lst[-1:] + lst[:-1]
print(r)

[5, 1, 2, 3, 4]

s = '15'#Take input "15" (string), convert to integer, subtract 3, convert back to string.
s1 = int(s)
s2 = int.__sub__(s1,3)
print(str(s2))

12

s3 = 'Srushtik'"SrushtiK" → slice to print "sti"
s4 = s3[3] + s3[5] + s3[6]
print(s4) #slicing method is not possible here

sti

```

Mini mock test 2

```

#Section A: Print, Typecasting & String Formatting (7 questions)

Name = 'Srushti'#Print your name and age in one line using format print().
age = 29
print('Hi i am {} and i am {} old'.format(Name,age) )

Hi i am Srushti and i am 29 old

s = '50'#Convert "50" (string) to integer and subtract 20. Print result.
s1 = int(s)
s2 = int.__sub__(s1,20)
print(str(s2))

30

f = "12.5"#Convert "12.5" (string) to float and multiply by 2. Print "Result: X" where X is the value.
f1 = float(f)
x = float.__mul__(f1,2)
print(x)

```

```
25.0
```

```
S = '100'#Take string "100" → convert to int → divide by 3 using floor  
division → print result.  
S1 = int(S)  
res = int.__floordiv__(S1,3)  
print(res)
```

```
33
```

```
i = 45 #Convert integer 45 to string and concatenate it with " is the  
number".  
i1 = str(i)  
print(i1 + ' is the number ')
```

```
45 is the number
```

```
name = 'Srushti'#Use f-string to print "My name is Srushti and I am 20  
years old" (replace with variables).  
age = 20  
print(f' my name is {name} and i am {age} years old')
```

```
my name is Srushti and i am 20 years old
```

```
a = 10 #Use format() method to print "The sum of 10 and 20 is 30"  
dynamically using variables.  
b = 20  
c = a + b  
print('the sum of {} and {} is {}'.format(a,b,c))
```

```
the sum of 10 and 20 is 30
```

#Section B: Lists (7 questions)

```
l = [10, 20, 30] #Create a list [10, 20, 30] → append 40 → print list.  
l.append(40)  
print(l)
```

```
[10, 20, 30, 40]
```

```
l1 = [1,2,3] #Copy list [1, 2, 3] to another list → append 4 to copy →  
print both lists.  
l2 = l1.copy()  
l2.append(4)  
print(l1)  
print(l2)
```

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

```
k = [5, 6, 7, 8] #Delete the element at index 1 from [5, 6, 7, 8].  
del k[1]  
print(k)  
[5, 7, 8]  
  
i = [10, 20, 30, 40] #Find the index of 30 in [10, 20, 30, 40].  
i.index(30)  
2  
  
i1 = [1,2,3,4]#Clear all elements of the list [1, 2, 3, 4].  
print(i1)  
[1, 2, 3, 4]  
  
i1.clear()  
print (i1)  
[]  
  
i = [1,2,3,4,5] #Rotate [1, 2, 3, 4, 5] to [5, 1, 2, 3, 4] using  
slicing.  
i1 = i[-1:] + i[:-1]  
print(i1)  
[5, 1, 2, 3, 4]  
  
t = [1,2,2,3,2]#count how many times 2 appears in [1, 2, 2, 3, 2]  
using a method you've learned.  
t.count(2)  
3  
  
#Section C: Slicing (4 questions)  
  
N = 'Srushti'#Slice "Srushti" to print "rus".  
N[1:4]  
  
'rus'  
  
p = "PythonProgramming" #Slice "PythonProgramming" to print "gram".  
p[9:13]  
  
'gram'  
  
l = 'learning'#Reverse the string "learning" using slicing.  
l[::-1]  
  
'gninrael'  
  
S = 'Srushtik'#"SrushtiK" → pick letters "sti" using indexing and  
concatenation (slicing won't work here).
```

```
S1 = S[3] + S[5] + S[6]
print(S1)

sti

a= 5#Calculate 5 + 3 * 2 and print the result.
b = 3
c = 2
d = a + b * c
print (d)

11

a1 = 2 #Calculate 2 ** 5 and print the result.
b1 = 5
res = int.__pow__(a1,b1)
print(res)

32

a2 = 17#Divide 17 by 4 using true division and floor division .
b2 = 4
res1 = int.__truediv__(a2,b2)
res2 = int.__floordiv__(a2,b2)
print(res1)
print(res2)

4.25
4

a3 = 12.5 #Multiply 12.5 by 4 using the method float.__mul__().
res3 = float.__mul__(a3,4)
print(res3)

50.0
```