

# Python For Loop Practice Questions with Explanations (No Answers)

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## 1. Print each character of a string.

Explanation: Use a for loop to iterate through each character in a string sequence.

**CODE:**

```
abc = "abhi"
```

```
for i in abc:
```

```
    print(i)
```

**O/p:**

a

b

h

i

## 2. Print all even numbers from a list.

Explanation: Iterate through a list and use a condition to check for even numbers.

**CODE:**

```
a=[2,3,24,31,5,60]
```

```
for i in a:
```

```
    if i%2==0:
```

```
        print(i)
```

**O/P:**

2

24

60

### 3. Calculate the sum of numbers in a tuple.

Explanation: Use a for loop to iterate through a tuple and keep adding each number to a total variable.

**CODE:**

```
a = (2,4,12,4,8)
```

```
sum=0
```

```
for i in a:
```

```
    sum+=i
```

```
print(sum)
```

**O/P:**

30

### 4. Print names from a list of strings.

Explanation: Loop through a list of names and print each one.

**CODE:**

```
names = ["Abhi","Ram","Nikki","Sujju"]
```

```
for i in names:
```

```
    print(i)
```

**O/P:**

Abhi

Ram

Nikki

Sujju

### 5. Print square of numbers using range.

Explanation: Use range to generate numbers, then square each number inside the loop.

**CODE:**

```
for i in range(1,11):
```

```
    sq=i*i
```

```
    print(sq)
```

**O/P:**

1  
4  
9  
16  
25  
36  
49  
64  
81  
100

### 6. Count vowels in a string.

Explanation: Loop through each character and check if it is a vowel using a condition.

**CODE:**

```
txt = "hello how are you"

vowel_count=0

for char in txt:

    if char in 'aeiou':

        vowel_count += 1

print(vowel_count)
```

**O/P: 7**

### 7. Reverse a string using for loop.

Explanation: Iterate through the string and build a new reversed string by prepending characters.

**CODE:**

```
str = "abhignya"

rev_str = ""

for char in str:
```

```
rev_str = char+rev_str  
print(rev_str)
```

O/P:

ayngihba

### 8. Check if elements in list are positive.

Explanation: Use a loop and condition to check and print whether each element is positive or not.

**CODE:**

```
numbers = [10, -5, 0, 23, -1, 8]  
  
for num in numbers:  
  
    if num > 0:  
  
        print(f'{num} is positive')  
  
    else:  
  
        print(f'{num} is not positive')
```

**O/P:**

10 is positive

-5 is not positive

0 is not positive

23 is positive

-1 is not positive

8 is positive

### 9. Print odd-indexed characters in a string.

Explanation: Use range and indexing to print characters that are at odd-numbered positions.

**CODE:**

```
str = input("enter string:")  
  
for i in range(1,len(str),2):  
  
    print(str[i])
```

**O/P:**

enter string:abcdef

b

d

f

### 10. Print multiples of 3 using range.

Explanation: Use range and an if condition to print numbers divisible by 3.

#### CODE:

```
for num in range(3, 20, 3):
```

```
    print(num)
```

#### O/P:

3

6

9

12

15

18

### 11. Find the product of numbers in a list.

Explanation: Iterate through the list and multiply each number to get the final product.

#### CODE:

```
num = [1,2,4,3,5,6]
```

```
prod=1
```

```
for n in num:
```

```
    prod *= n
```

```
print(prod)
```

#### O/P: 720

### 12. Count how many times a specific character appears in a string.

Explanation: Loop through the string and count how many times a specific character appears.

**CODE:**

```
text = "iam just sad"

char_to_count = 'a'

count = 0

for char in text:

    if char == char_to_count:

        count += 1

print(count)
```

**O/P:** 2**13. Print each element of a tuple with its index.**

Explanation: Use range and indexing to print the index and corresponding element in the tuple.

**CODE:**

```
my_tuple = ('apple', 'banana', 'cherry', 'date')

for i in range(len(my_tuple)):

    print(my_tuple[i])
```

**O/P:**

```
apple
banana
cherry
date
```

**14. Print numbers from 10 to 1 using range.**

Explanation: Use a reversed range to print numbers in descending order.

**CODE:**

```
for num in range(10, 0, -1):

    print(num)
```

**O/P:** 10

8

7

6

5

4

3

2

1

### **15. Convert each string in a list to uppercase.**

Explanation: Loop through a list of strings and convert each one to uppercase.

#### **CODE:**

```
words = ['apple', 'banana', 'cherry', 'date']
```

```
for word in words:
```

```
    upper_word = word.upper()
```

```
    print(upper_word)
```

#### **O/P:**

APPLE

BANANA

CHERRY

DATE