

30 Python Coding Interview Questions for Beginners

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Understanding Python coding interview questions is crucial as they serve as a gateway to opportunities in [software development](#) and [data science](#) careers. Mastering these questions not only showcases problem-solving abilities and Python proficiency but also enhances overall programming skills. By familiarizing oneself with common challenges and honing problem-solving strategies, candidates can confidently navigate technical interviews, demonstrating readiness for diverse roles in the tech industry. In this article we will explore Python coding interview questions for beginners which may help you in preparing for your interviews.

Q1. Write a Python program to Reverse a String?

Solution:

With Indexing:

```
def reverse_string(s):  
    return s[::-1]
```

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Output:

Original string: Hello, World!
Reversed string: !dlrow ,olleH

Without Indexing:

```
def reverse_string(s):  
    reversed_str = ""  
    for char in s:  
        reversed_str = char + reversed_str  
    return reversed_str  
  
# Example usage  
input_string = "Hello, World!"  
reversed_string = reverse_string(input_string)  
print("Original string:", input_string)  
print("Reversed string:", reversed_string)
```

[Copy Code](#)

Output:

Original string: Hello, World!
Reversed string: !dlrow ,olleH

Q2. Write a Python program to Check Palindrome?

Solution:

For String:

```
def is_palindrome(s):  
    # Remove spaces and convert to lowercase for case-insensitive comparison  
    s = s.replace(" ", "").lower()  
    return s == s[::-1]
```

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Output:

The string is not a palindrome.

For Number:

```
def is_palindrome(number):  
    # Convert number to string for easy manipulation  
    num_str = str(number)  
    return num_str == num_str[::-1]  
  
# Example usage  
input_number = 12321  
if is_palindrome(input_number):  
    print("The number is a palindrome.")  
else:  
    print("The number is not a palindrome.")
```

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Output:

The number is not a palindrome.

Q3. Write a Python program to Count Vowels in a String?

Solution:

```
def count_vowels(s):  
    # Define vowels  
    vowels = "aeiouAEIOU"  
    # Initialize count  
    count = 0  
    # Count vowels  
    for char in s:  
        if char in vowels:  
            count += 1
```

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Output:

Number of vowels in the string:3

Q4. Write a Python program to find Factorial with Recursion?**Solution:****With Function:**

```
def factorial(n):  
    if n == 0:  
        return 1  
    else:  
        return n * factorial(n - 1)  
  
# Example usage  
number = 5  
result = factorial(number)  
print("Factorial of", number, "is", result)
```

[Copy Code](#)**Output:**

Factorial of 5 is 120

Without Function:

```
number = 5  
factorial = 1  
  
if number < 0:  
    print("Factorial is not defined for negative numbers.")  
elif number == 0:  
    print("Factorial of 0 is 1")  
else:
```

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Factorial of 5 is 120

Q5. Write a Python program to find Fibonacci Sequence?

Solution:

```
def fibonacci(n):  
    fib_sequence = [0, 1] # Initialize the sequence with the first two terms  
    for i in range(2, n):  
        next_term = fib_sequence[-1] + fib_sequence[-2]  
        fib_sequence.append(next_term)  
    return fib_sequence  
  
# Example usage  
num_terms = 10  
fib_sequence = fibonacci(num_terms)  
print("Fibonacci sequence up to", num_terms, "terms:", fib_sequence)
```

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Output:

Fibonacci sequence up to 10 terms: [0, 1, 1, 2, 3, 5, 8, 13, 21, 34]

Q6. Write a Python program to find Maximum Element in a List?

Solution:

Using Built-in Function:

```
# Example list  
my_list = [10, 23, 45, 67, 12, 89, 34]  
  
# Find maximum element  
max_element = max(my_list)
```

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Using User-defined Function:

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```
def find_max_element(lst):  
    if not lst: # If the list is empty  
        return None # Return None since there is no maximum element  
    max_element = lst[0] # Initialize max_element with the first element of the  
    for num in lst:  
        if num > max_element:  
            max_element = num  
    return max_element  
  
# Example usage  
my_list = [10, 23, 45, 67, 12, 89, 34]  
max_element = find_max_element(my_list)  
print("Maximum element in the list:", max_element)
```



Output:

Maximum element in the list: 89

Q7. Write a Python program to find Anagram Check?

Solution:

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```
def is_anagram(str1, str2):  
    # Remove spaces and convert to lowercase for case-insensitive comparison  
    str1 = str1.replace(" ", "").lower()  
    str2 = str2.replace(" ", "").lower()  
    # Check if the sorted forms of both strings are equal  
    return sorted(str1) == sorted(str2)  
  
# Example usage  
string1 = "listen"  
string2 = "silent"  
if is_anagram(string1, string2):
```

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'listen' and 'silent' are anagrams.

Q8. Write a Python program to find Prime Numbers?

Solution:

```
def is_prime(num):  
    if num <= 1:  
        return False  
    for i in range(2, int(num ** 0.5) + 1):  
        if num % i == 0:  
            return False  
    return True  
  
def find_primes(start, end):  
    primes = []  
    for num in range(start, end + 1):  
        if is_prime(num):  
            primes.append(num)  
    return primes  
  
# Example usage  
start_range = 1  
end_range = 50  
prime_numbers = find_primes(start_range, end_range)  
print("Prime numbers between", start_range, "and", end_range, "are:", prime_numbers)
```

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Output:

Prime numbers between 1 and 50 are: [2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47]

Q9. Write a Python program to check for Pangram?

Q9. Write a Python program to check for Pangram?

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```

sentence = sentence.lower()
# Create a set of unique characters in the sentence
unique_chars = set(sentence)
# Remove non-alphabetic characters and spaces
unique_chars.discard(" ")
unique_chars.difference_update(set(string.punctuation))
# Check if all letters of the alphabet are present
return len(unique_chars) == 26

# Example usage
input_sentence = "The quick brown fox jumps over the lazy dog"
if is_pangram(input_sentence):
    print("The sentence is a pangram.")
else:
    print("The sentence is not a pangram.")

```

Output:

The sentence is a pangram.

Q10. Write a Python program to basic Data Structure Operations (e.g., list manipulation, string manipulation)?

Solution:

```

# List manipulation
my_list = [1, 2, 3, 4, 5]

# Append an element to the list
my_list.append(6)
print("After appending 6:", my_list)

# Remove an element from the list
my_list.remove(3)
print("After removing 3:", my_list)

# Access elements by index

```

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```

words = my_string.split()
print("Split string into words:", words)

# Join elements of a list into a single string
new_string = "-".join(words)
print("Joined words with '-':", new_string)

# Convert string to uppercase
upper_string = my_string.upper()
print("Uppercase string:", upper_string)

# Replace a substring
replaced_string = my_string.replace("World", "Universe")
print("After replacing 'World' with 'Universe':", replaced_string)

```

Output:

After appending 6: [1, 2, 3, 4, 5, 6]
 After removing 3: [1, 2, 4, 5, 6]
 Element at index 2: 4
 Split string into words: ['Hello,', 'World!']
 Joined words with '-': Hello,-World!
 Uppercase string: HELLO, WORLD!
 After replacing 'World' with 'Universe': Hello, Universe!

Q11. Write a Python program to find Minimum Element in a List?

Solution:

Using User-defined:

```

def find_min_element(lst):
    if not lst: # If the list is empty
        return None # Return None since there is no minimum element
    min_element = lst[0] # Initialize min_element with the first element of the
    for num in lst:

```

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```
min_element = find_min_element(my_list)
print("Minimum element in the list:", min_element)
```

Output:

Minimum element in the list: 10

Using Built-in Function:

```
my_list = [10, 23, 45, 67, 12, 89, 34]
min_element = min(my_list)
print("Minimum element in the list:", min_element)
```

[Copy Code](#)

Output:

Minimum element in the list: 10

Q12. Write a Python program to calculate Sum of Digits in a Number?

Solution:

```
def sum_of_digits(number):
    # Convert number to string to iterate through its digits
    num_str = str(number)
    # Initialize sum
    digit_sum = 0
    # Iterate through each digit and add it to the sum
    for digit in num_str:
        digit_sum += int(digit)
    return digit_sum

# Example usage
input_number = 12345
result = sum_of_digits(input_number)
```

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Q13. Write a Python program to check for Armstrong Number?

Solution:

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```
def is_armstrong(number):  
    # Convert number to string to get its length  
    num_str = str(number)  
    # Get the number of digits  
    num_digits = len(num_str)  
    # Initialize sum  
    armstrong_sum = 0  
    # Calculate the sum of digits raised to the power of the number of digits  
    for digit in num_str:  
        armstrong_sum += int(digit) ** num_digits  
    # Check if the sum is equal to the original number  
    return armstrong_sum == number  
  
# Example usage  
input_number = 153  
if is_armstrong(input_number):  
    print(input_number, "is an Armstrong number.")  
else:  
    print(input_number, "is not an Armstrong number.")
```

Output:

153 is an Armstrong number.

Q14. Write a Python program to check for Leap Year?

Solution:

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```
def is_leap_year(year):  
    if (year % 4 == 0 and year % 100 != 0) or (year % 400 == 0):  
        return True
```

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```
print(input_year, "is a leap year.")
else:
    print(input_year, "is not a leap year.")
```

Output:

2024 is a leap year.

Q15. Write a Python program to calculate Factorial without Recursion?

Solution:

```
def factorial(n):
    result = 1
    for i in range(1, n + 1):
        result *= i
    return result

# Example usage
number = 5
result = factorial(number)
print("Factorial of", number, "is", result)
```

[Copy Code](#)

Output:

Factorial of 5 is 120

Q16. Write a Python program to find Average of Numbers in a List?

Solution:

```
def find_average(numbers):
    if not numbers: # If the list is empty
        return None # Return None since there are no numbers to average
```

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```
average = find_average(number_list)
if average is not None:
    print("Average of numbers in the list:", average)
else:
    print("The list is empty.")
```

Output:

Average of numbers in the list: 30.0

Q17. Write a Python program to Merge Two Sorted Lists?

Solution:

```
def merge_sorted_lists(list1, list2):
    merged_list = []
    i = j = 0

    while i < len(list1) and j < len(list2):
        if list1[i] < list2[j]:
            merged_list.append(list1[i])
            i += 1
        else:
            merged_list.append(list2[j])
            j += 1

    # Append remaining elements from list1, if any
    while i < len(list1):
        merged_list.append(list1[i])
        i += 1

    # Append remaining elements from list2, if any
    while j < len(list2):
        merged_list.append(list2[j])
        j += 1

    return merged_list
```

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Output:

Merged sorted list: [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

Q18. Write a Python program to Remove Duplicates from a String?**Solution:**[Copy Code](#)

```
def remove_duplicates(input_string):  
    # Initialize an empty set to store unique characters  
    unique_chars = set()  
    # Initialize an empty string to store the result  
    result = ""  
    # Iterate through each character in the input string  
    for char in input_string:  
        # Add the character to the result string if it's not already in the set  
        if char not in unique_chars:  
            result += char  
            unique_chars.add(char)  
    return result  
  
# Example usage  
input_string = "hello world"  
result = remove_duplicates(input_string)  
print("String with duplicates removed:", result)
```

Output:

String with duplicates removed: helo wrd

Q19. Write a Python program to Check for Perfect Number?**Solution:**

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```
        if number % i == 0:
            divisor_sum += i
    # Check if the sum of proper divisors equals the number
    return divisor_sum == number

# Example usage
input_number = 28
if is_perfect_number(input_number):
    print(input_number, "is a perfect number.")
else:
    print(input_number, "is not a perfect number.")
```

Output:

28 is a perfect number.

Q20. Write a Python program to Find Maximum Difference between Two Elements in a List?

Solution:

```
def max_difference(nums):
    if len(nums) < 2:
        return None # If the list has less than two elements, return None
    min_element = float('inf') # Initialize min_element to positive infinity
    max_difference = float('-inf') # Initialize max_difference to negative infin
    for num in nums:
        min_element = min(min_element, num)
        max_difference = max(max_difference, num - min_element)
    return max_difference

# Example usage
numbers = [7, 1, 5, 3, 6, 4]
result = max_difference(numbers)
if result is not None:
    print("Maximum difference between two elements in the list:", result)
else:
```

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Q21. Write a Python program to check if a Number is Even or Odd?

Solution:

With User-defined Function:

```
def check_even_odd(number):  
    if number % 2 == 0:  
        return "Even"  
    else:  
        return "Odd"  
  
# Example usage  
input_number = 7  
result = check_even_odd(input_number)  
print(input_number, "is", result)
```

[Copy Code](#)

Output:

7 is Odd

Without Function:

```
number = 7  
  
if number % 2 == 0:  
    print(number, "is Even")  
else:  
    print(number, "is Odd")
```

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Output:

7 is Odd

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```
def count_words(sentence):  
    # Split the sentence into words using whitespace as the delimiter  
    words = sentence.split()  
    # Count the number of words  
    return len(words)  
  
# Example usage  
input_sentence = "This is a sample sentence."  
word_count = count_words(input_sentence)  
print("Number of words in the sentence:", word_count)
```

Output:

Number of words in the sentence: 5

With Built-in Function:

[Copy Code](#)

```
sentence = "This is a sample sentence."  
word_count = len(sentence.split())  
print("Number of words in the sentence:", word_count)
```

Output:

Number of words in the sentence: 5

Without Built-in Function:

[Copy Code](#)

```
sentence = "This is a sample sentence."  
word_count = 0  
# Flag to indicate if the current character is part of a word  
in_word = False  
# Iterate through each character in the sentence  
for char in sentence:  
    # If the character is not a space and we are not already in a word  
    if char != ' ' and not in_word:  
        # Increment word count and set the flag to indicate we are in a word  
        word_count += 1  
        in_word = True  
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```

```
print("Number of words in the sentence:", word_count)
```

Output:

Number of words in the sentence: 5

Q24. Write a Python program to Convert Decimal to Binary?

Solution:

```
def decimal_to_binary(decimal):  
    binary = ""  
    quotient = decimal  
    while quotient > 0:  
        remainder = quotient % 2  
        binary = str(remainder) + binary  
        quotient //= 2  
    return binary  
  
# Example usage  
decimal_number = 10  
binary_number = decimal_to_binary(decimal_number)  
print("Binary representation of", decimal_number, "is", binary_number)
```

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Output:

Binary representation of 10 is 1010

Q25. Write a Python program to Find Second Largest Element in a List?

Solution:

```
def second_largest(nums):
```

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```
numbers = [10, 30, 20, 40, 50]
result = second_largest(numbers)
if result is not None:
    print("Second largest element in the list:", result)
else:
    print("The list has less than two elements.")
```

Output:

Second largest element in the list: 40

Q26. Write a Python program to Reverse Words in a String?

Solution:

```
def reverse_words(input_string):
    # Split the string into words
    words = input_string.split()
    # Reverse the order of words
    reversed_words = words[::-1]
    # Join the reversed words back into a string
    reversed_string = " ".join(reversed_words)
    return reversed_string

# Example usage
input_string = "Hello World"
reversed_string = reverse_words(input_string)
print("Original string:", input_string)
print("Reversed string:", reversed_string)
```

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Output:

Original string: Hello World

Reversed string: World Hello


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```
def is_prime_factor(number, potential_factor):
    if number <= 1 or potential_factor <= 1:
        return False # Numbers less than or equal to 1 are not considered prime
    return number % potential_factor == 0

# Example usage
number = 15
potential_factor = 3
if is_prime_factor(number, potential_factor):
    print(potential_factor, "is a prime factor of", number)
else:
    print(potential_factor, "is not a prime factor of", number)
```



Output:

3 is a prime factor of 15

Q28. Write a Python program to check if a Number is a Power of Two?

Solution:

[Copy Code](#)

```
def is_power_of_two(number):
    if number <= 0:
        return False # Numbers less than or equal to 0 are not powers of two
    while number > 1:
        if number % 2 != 0:
            return False # If the number is not divisible by 2, it's not a power
        number //= 2
    return True

# Example usage
number = 16
if is_power_of_two(number):
    print(number, "is a power of two.")
else:
```

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Q29. Write a Python program to convert Celsius to Fahrenheit?

Solution:

```
def celsius_to_fahrenheit(celsius):  
    fahrenheit = (celsius * 9/5) + 32  
    return fahrenheit  
  
# Example usage  
celsius_temperature = 25  
fahrenheit_temperature = celsius_to_fahrenheit(celsius_temperature)  
print("Celsius:", celsius_temperature, "Fahrenheit:", fahrenheit_temperature)
```

[Copy Code](#)

Output:

Celsius: 25 Fahrenheit: 77.0

Q30. Write a Python program to calculate LCM (Least Common Multiple) of Two Numbers?

Solution:

```
import math  
  
def lcm(a, b):  
    return abs(a * b) // math.gcd(a, b)  
  
# Example usage  
num1 = 12  
num2 = 18  
result = lcm(num1, num2)  
print("LCM of", num1, "and", num2, "is", result)
```

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Output:

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Conclusion

Completing practice with Python coding interview questions is essential for those who want to succeed in [data science](#) and software development positions. This extensive compilation addresses a broad range of basic ideas, from arithmetic operations and list manipulation to string manipulation. There are thorough answers for every query, complete with concise justifications and useful code samples. Candidates who actively engage with these questions not only demonstrate their mastery of Python but also develop critical thinking abilities that are necessary for acing technical interviews and landing a variety of jobs in the tech sector.

Also Read: [Top 12 Free Python Courses](#)

Here are a few articles that might be useful for your interview:

- [How to Prepare for an AI Job Interview?](#)
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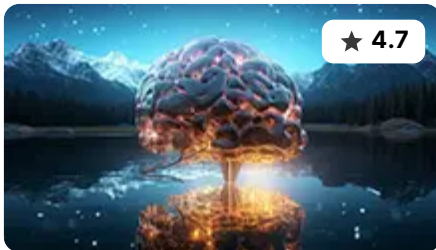
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My name is Ayushi Trivedi. I am a B. Tech graduate. I have 3 years of experience working as an educator and content editor. I have worked with various python libraries, like numpy, pandas, seaborn, matplotlib, scikit, imblearn, linear regression and many more. I am also an author. My first book named #turning25 has been published and is available on amazon and flipkart. Here, I am technical content editor at Analytics Vidhya. I feel proud and happy to be AVian. I have a great team to work with. I love building the bridge between the technology and the learner.

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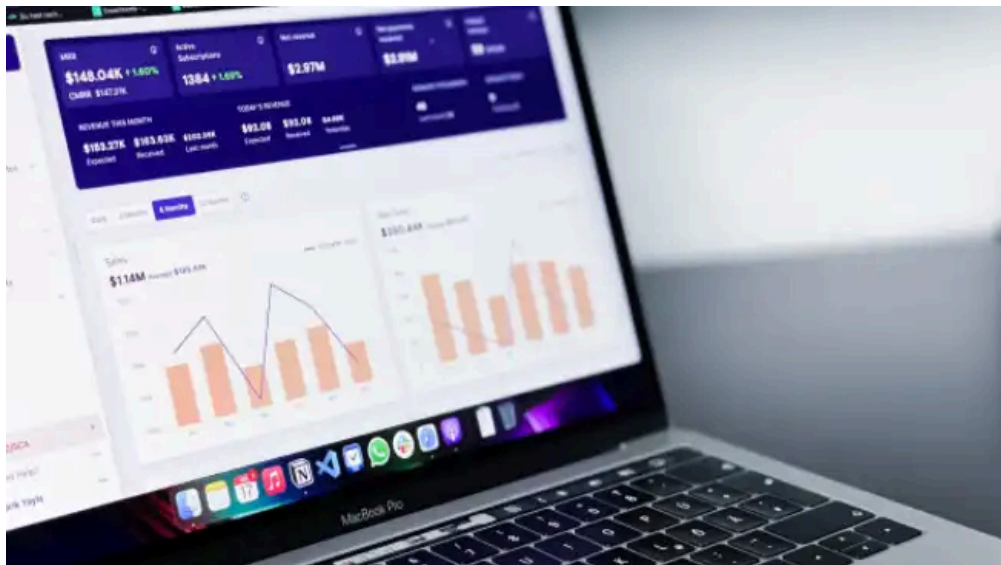
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