

1. Write a program to use a for loop and a continue statement to go through all of the entered numbers one by one. The subsequent elements in the sequence are activated when a particular element in the sequence has a value of 16.

Given x=[23,43,56,78,16,9,7,12,14,15]

2. Write a Python program that handles the following situation with while and if-else statements.

"Gourmande patrons a restaurant on a regular basis. The Gourmande can place an order from the restaurant's menu. If the order is identical to the "Signature dish", the server notes it and takes it down; otherwise, they may recommend the "Signature dish" instead of the favourite dish."

3. Make use of for-loop statements in the code to deal with the following scenario.

"Books can be checked out as many times as needed, but the library only allows 10 visitors per day. Find out how many books were asked for in total."

4. Make use of a for-else loop and break statements in the code to deal with the following scenario.

Due to pandemic regulations, an online store can only ship to a maximum of 6 USERS and up to 50 accessories at a time. Users 1 and 2 each place an order of INR 78 and

INR 54. As stock runs out, deny the third request.

5. Exhibit how Pass can be used as a placeholder for future code in a

(i) for loop in range(3,7).

(ii) for loop in range(12).

6. Write a for loop for this scenario, "In this game, you have FIVE chances to win. The player will get what he wants if his request is granted. If the program continues, he can play again."

7. Create a program to check whether movie tickets are available or not.

8. Iterate through the given string printing each letter using the for loop.

9. Iterating through a fibonacci_series=(1,1,2,3,5,8,13,21,34,55,89) by using the for loop as the primary control structure

10. Write a program to use Python for loops for the fibonacci_series=(1,1,2,3,5,8,13,21,34,55,89)

11. Write a program using the for loop that outputs each word in the list.

rice= ["Arborio", "Wehani", "Basmati"]
Also, print each word's characters instead.
str="Hakuna Matata"

12. Create a program utilizing a for loop, an if statement, and break in Python to post a list of rice and verify their presence or absence.
rice= ["Arborio", "Wehani", "Basmati"]

13. Convert the following "while loop" into a "for loop":

```
x=804
while(x<=1008):
    print(x*100)
    x+=15
```
14. Create some code to generate the following pattern using two "for loops".

```
6 6 6 6 6 6
5 5 5 5 5
4 4 4 4
3 3 3
2 2
1
```
15. Create some code to generate the following pattern using two "for loops".

```
1
2 2
3 3 3
4 4 4 4
5 5 5 5 5
```
16. Write a program using a while loop to calculate the mean(= total/25) of a set of numbers using a while loop.
 Given while loop condition = count<6
17. Create a Python code using for loop that outputs all the multiples of 5 between 108 and 508.
18. Develop a Python code using for loop, which, in response to an integer input(x) from the user, returns all the integers in line. Given range(18,25).
19. Create a program using for loop to determine the highest common factor or greatest common divisor of a pair of numbers.
20. Write a Python code using for loop to show all the odd numbers lying between any two input numbers (1,9).
21. Create a Python script using for loop that will flip any user-entered word.
22. Write a Python program using a while loop that multiplies two integer numbers (1,9) using repeated addition (without using the '*' operator).
23. Write a Python program to demonstrate the use of a pass in a simple for-if loop. Given range (2786,2799). Print when multiples of 5 are found.
24. Create some code that uses an iterative for-else loop to cycle through the fruit strings. Given list of
 fruits=['Banana', 'Fig', 'Guava', 'Jackfruit', 'Lemon', 'Mango', 'Orange', 'Papaya', 'Rambutan', 'Star Apple', and 'Watermelon']
25. Create a code that uses an iterative for-else loop with a pass to cycle through the fruit strings. Given sequence strings are
 Juice=["Amla Juice", "Orange Juice", "Pomegranate Juice", and "Pineapple Juice"].
 HealthiestJuice is the optional declared variable to be used in for loop
26. Create a code that uses an iterative for-else loop with continue to cycle through the fruit strings. Given sequence strings are
 Juice=["Pomegranate Juice", "Orange Juice", "Pineapple Juice", and "Grapes Juice"].
 HealthiestJuice as the optional declared variable to be used in for loop
27. Write a Python program to print the quadruple of positive numbers.
28. Write a Python program using break to print the triple of positive numbers.
29. Construct a Python program that returns a 2D array with the specified number of rows and columns, x and y respectively.
30. Create a script in Python that determines if the given number is a palindrome.
 Given numbers:
 [i] 7890987
 [ii] 324576
 Hint: Words, phrases, numbers, and strings that read the same both ways are palindromes.