

1. Write a Python function to calculate the sum of all numbers in a given list using a `for` loop.
2. Write a function that prints all even numbers between 1 and 20 using a `while` loop.
3. Create a function that accepts a number as an argument and prints all its divisors using a `for` loop.
4. Write a function to count how many times the letter 'a' appears in a given string using a `for` loop.
5. Write a Python function that returns the factorial of a given number using a `for` loop.
6. Create a function that prints the Fibonacci sequence up to a given number using a `while` loop.
7. Write a function that calculates the average of all numbers in a list and returns the result using a `for` loop.
8. Create a function to check if a number is prime, using a `for` loop to iterate through possible divisors.
9. Write a function that prints the multiplication table of a given number up to 10 using a `for` loop.
10. Create a function that prints all numbers from 1 to 100 that are divisible by both 3 and 5 using a `while` loop.
11. Write a Python function to reverse a given string.
12. Write a Python program to generate a list of squares of numbers from 1 to N.
13. Create a program that asks the user to input the depth of a well in meters. If the depth is above 10 meters, display 'The well is deep.' If it is 10 meters or less, display 'The well is shallow.' Keep asking for the depth until the user inputs -1 to exit.
14. Create a program that prompts the user to enter a number and determines whether it is divisible by 3, 5, or neither. Continue asking for input until the user enters "exit".
15. Write a Python program that generates the squares and cubes of numbers from 1 to 5. Use a loop to iterate through the numbers and print the results in the format:  $a^2 = b$ ,  $a^3 = c$ .
16. Create a Python program that converts temperatures.
  - Ask the user to input a temperature in Celsius or Fahrenheit and the desired conversion (e.g., C to F or F to C).
  - Use a function to perform the conversion.

- Keep asking for conversions until the user types "Stop."
17. Write a Python program which accepts the radius of a circle from the user and computes the area.