

## ✅ Beginner Python Programming Questions

### 📌 1. Variables & Data Types

1. Write a Python program to swap two variables.
2. Take user input of name and age, then print: "Hello, <name>. You will be <age+1> next year."
3. Convert temperature from Celsius to Fahrenheit.

### 📌 2. Conditionals

4. Write a program to check if a number is even or odd.
5. Take input from the user and determine if it is positive, negative, or zero.
6. Check whether a given year is a leap year or not.

### 📌 3. Loops

7. Print numbers from 1 to 100 using a loop.
8. Print the multiplication table of a number entered by the user.
9. Calculate the sum of all numbers from 1 to n.

### 📌 4. Strings

10. Count vowels in a given string.
11. Check whether a string is a palindrome.
12. Reverse a string without using built-in functions.

### 📌 5. Lists

13. Find the maximum and minimum in a list without using max() or min().
14. Remove duplicates from a list.
15. Sort a list in ascending order (without using built-in sort()).

### 📌 6. Functions

16. Write a function to find the factorial of a number.
17. Write a function that returns the sum of all elements in a list.
18. Create a function to check if a number is prime.

## 7. Dictionaries & Sets

- 19. Count frequency of each word in a sentence using a dictionary.
- 20. Create a dictionary of squares of numbers from 1 to 10.
- 21. Remove duplicate elements from a list using a set.

## 8. File Handling

- 22. Write to a file and then read the contents.
- 23. Count the number of lines, words, and characters in a text file.
- 24. Copy content from one file to another.