List Comprehension

List Comprehension Basic 1

- 1. Create a list of even numbers from 1 to 20.
- 2. Generate a list of squares for odd numbers between 1 and 15.
- 3. Create a list of numbers between 1 and 30 that are divisible by 3.
- 4. Filter only positive numbers from the list [-10, -5, 0, 5, 10].
- 5. Create a list of words longer than 4 characters from ["apple", "pie", "banana", "pear"].
- 6. Select words that start with "S" from ["Sun", "moon", "star", "sky"].
- 7. Filter out strings with only digits from ["hello", "123", "world", "456"].
- 8. Create a list of uppercase letters in "Hello World!".
- 9. Create a list of numbers from 1 to 100 that end in 5.
- 10. Filter palindromic words from ["madam", "apple", "civic", "level"].
- 11. Create a list of multiples of 5 from 1 to 50.
- 12. Remove words containing vowels from ["sky", "fly", "why", "try"].
- 13. Filter strings that are alphanumeric from ["Hello", "123!", "world", "@test"].
- 14. List perfect squares under 100.
- 15. Select words with an even number of characters from ["cat", "elephant", "dog", "horse"].
- 16. Create a list of words containing the letter "e" from ["tree", "rock", "water", "sun"].
- 17. Generate a list of prime numbers from 1 to 50.
- 18. Select words that are fully uppercase from ["HELLO", "world", "PYTHON", "code"].
- 19. Create a list of numbers from 1 to 100 that are divisible by 7.
- 20. Filter words ending in "ing" from ["running", "jog", "swimming", "dancing"].

List Comprehension 1

- 21. Select negative numbers from [-10, 5, -3, 2, -7].
- 22. Create a list of lowercase letters from "Python Programming!".
- 23. Select words containing the letter "a" from ["apple", "banana", "grape", "kiwi"].
- 24. Create a list of words with odd lengths from ["python", "java", "c++", "ruby"].
- 25. Filter positive even numbers from [-4, -2, 0, 2, 4, 6].
- 26. Create a list of odd numbers from 1 to 50 that are divisible by 5.
- 27. Filter words ending in "ly" from ["quickly", "slow", "happily", "fast"].
- 28. Create a list of non-empty strings from ["apple", "", "banana", " ", "cherry"].
- 29. Filter strings with only special characters from ["@#\$", "123", "abc!", "#!"].
- 30. Create a list of uppercase vowels from "HELLO WORLD!".
- 31. Filter strings containing digits from ["abc", "a1b", "def", "g3h"].
- 32. Select words longer than 5 characters from ["hello", "world", "Python", "rocks"].
- 33. Create a list of strings ending in "s" from ["dogs", "cat", "lions", "tiger"].
- 34. Filter out strings with only non-digit characters from ["123", "abc", "45a", "bcd"].
- 35. Generate squares of positive numbers from [-3, -2, -1, 0, 1, 2, 3].
- 36. Filter words containing the letter "i" from ["hi", "hello", "in", "out"].
- 37. Create a list of numbers up to 100 that are multiples of both 4 and 6.
- 38. Filter numbers from 1 to 200 that are divisible by 11.
- 39. Select strings with no spaces from ["hello world", "no_space", "python code"].
- 40. Create a list of odd numbers from 1 to 100 that end in 3.
- 41. Select words containing both uppercase and lowercase letters from ["Hello", "WORLD", "python", "Code"].
- 42. Create a list of numbers up to 200 that are divisible by 13 but not by 7.
- 43. Select words starting and ending with the same letter from ["eye", "apple", "level", "banana"].

List Comprehension 2

- 44. Filter words with an odd length greater than 5 from ["hello", "goodbye", "evening", "night"].
- 45. Select words that contain the letter "z" from ["jazz", "buzz", "fizz", "hello"].
- 46. Create a list of numbers from [2, 4, 6, 8, 10] that are less than the average of the list.
- 47. Generate double the value of even numbers from range(1, 20).
- 48. Filter strings containing no vowels from ["sky", "try", "bye", "fly"].
- 49. Create a list of odd prime numbers under 50.
- 50. Filter positive numbers that are not multiples of 3 from [-3, -2, 0, 1, 4, 6, 9].

List Comprehension 3