

◆ PART A: Basic String Programs

1. Write a program to check whether a string is **symmetrical** or **palindrome**.
2. Write a program to find the **length of a string**.
3. Write a program to **reverse words in a string**.
4. Write a program to **remove letters from a string**.
5. Write a program to calculate **string length without spaces**.
6. Write a program to **print even-length words** from a string.
7. Write a program to **convert half of the string into uppercase**.
8. Write a program to **capitalize first and last character of each word**.
9. Write a program to check if a string contains **both letters and numbers**.
10. Write a program to accept strings containing **all vowels**.
11. Write a program to **count matching characters** in a pair of strings.
12. Write a program to **count vowels using sets**.
13. Write a program to **remove duplicate characters** from a string.
14. Write a program to find the **least frequent character**.
15. Write a program to find the **maximum frequency character**.
16. Write a program to print **odd frequency characters**.
17. Write a program to find **specific character frequency**.
18. Write a program to find **frequency of numbers in a string**.
19. Write a program to check if a string contains **special characters**.
20. Write a program to **generate random strings until a given string is generated**.
21. Write a program to find **words greater than length K**.
22. Write a program to **remove ith character** from a string.
23. Write a program to **split and join a string**.
24. Write a program to check if a string is a **binary string**.
25. Write a program to find **close matches of input string from a list**.
26. Write a program to find **uncommon words from two strings**.
27. Write a program to **swap commas and dots** in a string.
28. Write a program to generate **permutations of a string using inbuilt function**.
29. Write a program to **check URL presence** in a string.
30. Write a program to **execute a string of code**.
31. Write a program to **print middle character of a string**.
32. Write a program to **convert integer to string**.
33. Write a program to **convert string to integer**.

34. Write a program to **split string into list of characters**.
 35. Write a program to **convert list to string**.
 36. Write a program to **convert string to list**.
 37. Write a program to **remove letters from a string**.
 38. Write a program to **convert list of characters into string**.
 39. Write a program to **convert object to string**.
 40. Write a program to **sort a list of strings**.
 41. Write a program to **convert tuple to string**.
 42. Write a program to check if a **string is empty** or not.
 43. Write a program to **convert string to set**.
 44. Write a program to **convert set to string**.
 45. Write a program to **generate valid IP addresses** from a string.
 46. Write a program to **check and display vowels** in a string.
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◆ **PART B: Basic Practice Programs**

47. Write a program to **repeat strings**.
 48. Write a program demonstrating **string functions**.
 49. Write a program to **convert string to lowercase**.
 50. Write a program to **reverse a string**.
 51. Write a program to **check palindrome string**.
 52. Write a program to **find pattern** in string.
 53. Write a program to convert **decimal number to binary**.
 54. Write a program to convert **binary number to decimal**.
 55. Write a program to **reverse words in a string**.
 56. Write a program for **palindrome string**.
 57. Write a program to **slice a string**.
 58. Write a program to **change case of string**.
 59. Write a program to **print alphabets**.
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◆ **PART C: Advanced String Programs**

60. Write a program to **convert numeric words to numbers**.
61. Write a program to find **word location in a string**.
62. Write a program to find **consecutive character frequency**.
63. Write a program to **rotate a string**.

64. Write a program to check if string can become empty by **recursive deletion**.
65. Write a program to find **minimum rotations to obtain a string**.
66. Write a program to find **word frequency using shorthand**.
67. Write a program to find **successive character frequency**.
68. Write a program to **sort string by K frequency**.
69. Write a program to **convert snake case to pascal case**.
70. Write a program to **avoid last occurrence of delimiter**.
71. Write a program to find **character position of Kth word**.
72. Write a program to **left and right shift characters**.
73. Write a program for **exceptional split**.
74. Write a program to **split string on vowels**.
75. Write a program to find **mirror image of a string**.
76. Write a program to **replace multiple words with K**.
77. Write a program to **replace different characters at once**.
78. Write a program to **replace multiple indices**.
79. Write a program to **remove multiple empty spaces**.
80. Write a program to **remove punctuation**.
81. Write a program to **compare similar character strings**.
82. Write a program to **remove K length duplicates**.
83. Write a program to **remove suffix**.
84. Write a program to find **all duplicate characters**.
85. Write a program to **replace duplicate occurrence**.
86. Write a program to **convert string to dictionary**.
87. Write a program to check if strings are **rotationally equivalent**.
88. Write a program to test if **string is subset of another**.
89. Write a program to **generate random binary string**.
90. Write a program to **convert binary to string**.
91. Write a program to **reverse sort a string**.
92. Write a program to **remove special characters**.
93. Write a program to **validate password**.
94. Write a program to **add padding**.
95. Write a program to print **superscript and subscript**.
96. Write a program to check if string is **pangram**.
97. Write a program to **sort a list**.

98. Write a program to **convert image to string and vice-versa**.
 99. Write a program to **iterate over words of a string**.
 100. Write a program to **convert case of elements in list of strings**.
 101. Write a program to **sort list of date strings**.
 102. Write a program to **pad string using f-string**.
 103. Write a program to **convert string to datetime and vice-versa**.
 104. Write a program to **index and slice strings**.
 105. Write a program to **split string into groups of N characters**.
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◆ PART D: Programs on Substring

106. Write a program to **check substring presence**.
107. Write a program to find **substring frequency**.
108. Write a program to find **maximum consecutive substring occurrence**.
109. Write a program to find **maximum occurring substring**.
110. Write a program to find **possible substring count**.
111. Write a program to **replace all occurrences of substring**.
112. Write a program to find **longest substring of length K**.
113. Write a program to **extract indices of substring matches**.
114. Write a program to **split by repeating substring**.
115. Write a program to **remove substring list**.
116. Write a program to **remove string after substring**.
117. Write a program to **remove redundant substrings**.
118. Write a program to **test substring order**.
119. Write a program to print **string till substring**.
120. Write a program to **filter strings using combination of K substrings**.