

1. Write a program to find the length of the string without using inbuilt function (len)
2. Write a program to reverse a string without using any inbuilt functions.
3. Write a program to replace one string with another. e.g. "Hello World" replaces "World" with "Universe".
4. How to convert a string to a list and vice-versa.
5. Convert the string "Hello welcome to Python" to a comma separated string.
6. Write a program to print alternate characters in a string.
7. Write a python program to get the below output sentence = "Hi How are you"
o/p should be "iH woH era uoy"
8. Write a python program to get the below output sentence = "Hi How are you"
o/p should be "ouy era woH iH"
9. Write a lambda function to add two numbers (a, b)
10. How to remove duplicates from the list without using inbuilt functions
items = [1, 2, 3, 4, 1, 2, 3, 4, 5]
11. Find the longest word in the sentence
12. write a program to reverse the values in the dictionary if the value is of type String
d = {'a': 'hello', 'b': 100, 'c': 10.1, 'd': 'world'}
13. write a program to get 1234
t = ('1', '2', '3', '4')
14. How to get the elements that are in list b but not in list a**
a = [1, 2, 3]
b = [1, 2, 3, 4]
15. Write a function to reverse any iterable without using reverse function.
16. Write a function to print the below output.
func("TRACXN", 0) # Should print RCN
func("TRACXN", 1) # Should print TAX
17. Sum all the numbers in the below string.**
s = "Sony12India567Pvt2ltd"



18. Write a program to sum all the numbers in below string.**

```
s = "Sony12India567Pvt2ltd" # eg.12+567+2
```

19. Write a program to iterate through list and build a new list, only if the items of the list has even number of characters.**

```
names = ['apple', 'yahoo', 'google', 'gmail', 'walmart', 'flipkart', 'facebook', 'amazon']
```

20. Write a function to check if the number is Prime

21. Write a program to find most common words in a given list.

```
words = ['look', 'into', 'my', 'eyes', 'look', 'into', 'my', 'eyes', 'the', 'eyes', 'the', 'eyes', 'the', 'eyes', 'not', 'around', 'the', 'eyes', "don't", 'look', 'around', 'the', 'eyes', 'look', 'into', 'my', 'eyes', "you're", 'under']
```

22. Write a program to get all the duplicate items and the number of times the item is repeated in the list

```
names = ['apple', 'google', 'apple', 'yahoo', 'yahoo', 'facebook', 'apple', 'gmail', 'gmail', 'gmail', 'gmail']
```

23. Write a program to count the number of occurrences of vowels in a file

24. Write a program to count the number of white spaces in a given string

25. Write a program to check if the year is leap year or not python

26. Grouping even and odd numbers

```
numbers = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
```

```
# o/p should be {1: [1, 3, 5, 7, 9], 0: [2, 4, 6, 8, 10]}
```

27. Write a python program to get the below output python

```
l1 = [1, 2, 3]
```

```
l2 = ['a', 'b', 'c']
```

```
# o/p ['1a', '1b', '1c', '2a', '2b', '2c', '3a', '3b', '3c']
```

28. What is the output of the below program.

```
>>> [1, 2, 3, 4] * 2
```

29. Write a program to print common character present in all the items of the below list

```
items = [ "glory", "glass", "sight", "fight"]
```

30. write a program to get the below output

```
>>> items = ['$123.45', '$434.23', '$567.89']
```

```
>>> # o/p [123.45, 434.23, 567.89]
```

