

- Write a Python program to find words which are greater than given length k?

In [1]:

```
1 def find_words_greater_than_k(input_list, k):
2     return [word for word in input_list if len(word) > k]
3
4 # Example list of words
5 words = ["apple", "banana", "grape", "orange", "kiwi", "melon"]
6
7 # Length to compare against
8 length_to_compare = 5
9
10 # Find words greater than the specified length
11 selected_words = find_words_greater_than_k(words, length_to_compare)
12 print(f"Words greater than length {length_to_compare}: {selected_words}")
13
```

Words greater than length 5: ['banana', 'orange']

- Write a Python program for removing i-th character from a string?

In [2]:

```
1 def remove_ith_character(input_string, i):
2     if i < 0 or i >= len(input_string):
3         return "Invalid index"
4
5     return input_string[:i] + input_string[i+1:]
6
7 # Example string
8 text = "Python"
9
10 # Index of the character to remove
11 index_to_remove = 2
12
13 # Remove the i-th character from the string
14 result = remove_ith_character(text, index_to_remove)
15 print(f"Resulting string after removing {index_to_remove}-th character:", result)
16
```

Resulting string after removing 2-th character: Pyhon

- Write a Python program to split and join a string?

```
In [3]: 1 def split_string(input_string, delimiter):
2         return input_string.split(delimiter)
3
4         # Example string
5         text = "Hello,how,are,you"
6
7         # Delimiter to split the string
8         separator = ","
9
10        # Split the string into a list of substrings
11        split_result = split_string(text, separator)
12        print("Splitting the string:", split_result)
13
```

Splitting the string: ['Hello', 'how', 'are', 'you']

- Write a Python to check if a given string is binary string or not?

```
In [4]: 1 def is_binary_string(input_string):
2         for char in input_string:
3             if char != '0' and char != '1':
4                 return False
5         return True
6
7         # Example string
8         binary_string = "101010"
9
10        # Check if the string is a binary string
11        if is_binary_string(binary_string):
12            print(f"The string '{binary_string}' is a binary string.")
13        else:
14            print(f"The string '{binary_string}' is not a binary string.")
15
```

The string '101010' is a binary string.

- Write a Python program to find uncommon words from two Strings?

```
In [5]: 1 def find_uncommon_words(string1, string2):
2         words1 = set(string1.split())
3         words2 = set(string2.split())
4
5         uncommon_words = words1.symmetric_difference(words2)
6         return uncommon_words
7
8         # Example strings
9         text1 = "Python is a programming language"
10        text2 = "Java is another programming language"
11
12        # Find uncommon words between the two strings
13        uncommon = find_uncommon_words(text1, text2)
14        print("Uncommon words:", uncommon)
15
```

Uncommon words: {'another', 'Python', 'Java', 'a'}

- Write a Python to find all duplicate characters in string?

```
In [6]: 1 def find_duplicate_characters(input_string):
2         char_count = {}
3         duplicates = []
4
5         for char in input_string:
6             if char in char_count:
7                 char_count[char] += 1
8             else:
9                 char_count[char] = 1
10
11        for char, count in char_count.items():
12            if count > 1:
13                duplicates.append(char)
14
15        return duplicates
16
17        # Example string
18        text = "hellothere"
19
20        # Find duplicate characters in the string
21        duplicate_chars = find_duplicate_characters(text)
22        print("Duplicate characters in the string:", duplicate_chars)
23
```

Duplicate characters in the string: ['h', 'e', 'l']

- Write a Python Program to check if a string contains any special character?

```
In [7]: 1 def contains_special_character(input_string):
2         for char in input_string:
3             if not char.isalnum():
4                 return True
5         return False
6
7         # Example string
8         text = "Hello@123"
9
10        # Check if the string contains any special character
11        contains_special = contains_special_character(text)
12        if contains_special:
13            print("The string contains special characters.")
14        else:
15            print("The string does not contain any special characters.")
16
```

The string contains special characters.

```
In [ ]: 1
```