

Python Basic Programming Assignment 11

1. Write a Python program to find a word that is greater than the given length k.

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

```
[3]: my_string = input('Write a sentence : ')
      string_length = int(input('Want to check Greater than length of : '))

      def string_check(my_string, string_length):
          result_string = [] #store result
          words = my_string.split(" ") ##split into words to check one by one
          for x in words:
              if len(x) > string_length:
                  result_string.append(x)
          return result_string

      print("The string is :")
      print(my_string) ## written sentence
      print("\nThe words in the string with length greater than" , string_length , "is :")
      print(string_check(my_string, string_length,)) ##return output from result_string
```

```
Write a sentence : my name is arati dash
Want to check Greater than length of : 3
The string is :
my name is arati dash
```

```
The words in the string with length greater than 3 is :
['name', 'arati', 'dash']
```

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

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```
[8]: my_string = input('Write a sentence : ')
      len_string = int(input('give a character number want to remove from a sentence : '))

      def remove_char(s, i):
          a = s[ : i-1]
          b = s[i: ]

          return print(a+b)

      print(remove_char(my_string, len_string))
```

```
Write a sentence : arati dash
give a character number want to remove from a sentence : 3
arti dash
None
```

3. Write a Python program to split and join a string?

```
[3]: string = input('Write a sentence want to split : ')

def split_string(string):
    # Split the string based on space delimiter
    list_string = string.split(' ')
    return list_string

def join_string(list_string):
    # Join the string based on '-' delimiter
    string = '-'.join(list_string)
    return string

# Splitting a string
list_of_strings = split_string(string)
print('List of strings by split function = ', list_of_strings)

new_string = join_string(list_of_strings)
print('New string by join function = ', new_string)

Write a sentence want to split : i want a job
List of strings by split function = ['i', 'want', 'a', 'job']
New string by join function = i-want-a-job
```

4. Write a Python to check whether a given string is binary or not.

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

```
[6]: string = input('Write a sentence want to check string is binary string or not : ')

def check(string):
    p = set(string) # set function convert string into set of characters
    s = {'0', '1'}
    if s == p or p == {'0'} or p == {'1'}:
        print("Yes ! This given string is a binary string. ")
    else:
        print("Oops ! This given string is not a binary string. ")

check_string = check(string)
```

Write a sentence want to check string is binary string or not : arati dash
Oops ! This given string is not a binary string.

```
[7]: string = input('Write a sentence want to check string is binary string or not : ')

def check(string):
    p = set(string) # set function convert string into set of characters
    s = {'0', '1'}
    if s == p or p == {'0'} or p == {'1'}:
        print("Yes ! This given string is a binary string. ")
    else:
        print("Oops ! This given string is not a binary string. ")

check_string = check(string)
```

Write a sentence want to check string is binary string or not : 100100111
Yes ! This given string is a binary string.

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

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```
[11]: str1 = input('Enter a first string : ')
      str2 = input('Enter a second string : ')

      # store in list after separate words
      str1List = str1.split(' ')
      str2List = str2.split(' ')
      uncommonWords = ' '
      for words in str1List:
          if words not in str2List:
              uncommonWords = uncommonWords+" "+words
      for words in str2List:
          if words not in str1List:
              uncommonWords = uncommonWords+" "+words

      ##printing uncommon words
      print("All uncommon words from both the string are : ", uncommonWords)
```

```
Enter a first string : arati dash
Enter a second string : anjali dash
All uncommon words from both the string are :   arati anjali
```

6. Write a Python to find all duplicate characters in a string?

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```
•[14]: string = input('Enter a string : ')

      dup_char = []
      for char in string:
          # check whether there are duplicate characters or not
          # returning the frequency of a character in the string
          if string.count(char) > 1: #check one char and their freq > 1 or not
              if char not in dup_char: #3 if yess then check already present or not then append
                  dup_char.append(char)
      print('Duplicates caharacters are : ', dup_char)
```

```
Enter a string : arpita dash
Duplicates caharacters are : ['a']
```

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

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```
[16]: sp_char = "!@$_%^&*()-+?_=<>/#"
s=input('Enter a string : ')

if any(c in sp_char for c in s):
    print("yes ! the string has a special character")
else:
    print("no ! the string has not any special character")
```

```
Enter a string : ar@ti#
yes ! the string has a special character
```

```
[17]: sp_char = "!@$_%^&*()-+?_=<>/#"
s=input('Enter a string : ')

if any(c in sp_char for c in s):
    print("yes ! the string has a special character")
else:
    print("no ! the string has not any special character")
```

```
Enter a string : arati
no ! the string has not any special character
```