

# Display Word With Longest Length

```
def longestWord():
    print("\tProgram to display word with longest length\n")
    str1 = input("Enter the String :- ")
    slist = str1.split()
    large = ""
    for word in slist:
        if len(large) < len(word):
            large = word
    print("the word with largest length is :- ", large, "\n")
```

# frequency of occurrence of particular character

```
def freqOfChar():
    print("\tProgram to Find frequency of occurrence of particular character\n")
    str1 = input("Enter the String :- ")
    key = input("Enter the character ")
    count = 0
    for i in str1:
        if i == key:
            count += 1
    print("The Occurance of '", key,
        "' in the given string is ", count, " times\n")
```

# Check Whether Given string is palindrom or not

```
def isPalindrome():
    print("\tProgram to Check whether the given string is palindrome or not\n")

    str1 = input("\nEnter the Sting :- ")
    if (str1 == str1[::-1]):
        print("String is palindrome")
    else:
        print("string is not palindrome")
```

# to display index of first appearance of substring

```
def findSubstr():
    print("\tProgram to display index of first appearance of substring\n")
    str1 = input("Enter the String :- ")
    str2 = input("Enter the Substring:- ")
    index = -1
    for i in range(len(str1)-len(str2)):
        if str1[i:i+len(str2)] == str2:
            index = i
            break
    print("The index of first appearance of ' ", str2, "' is ", index)
```

# to Count occurrence of each word in a given string

```
def countOfWords():
```

```
    print("\nProgram to Count occurrence of each word in a given string\n")
```

```
    str1 = input("Enter the String :- ")
```

```
    slist = str1.split()
```

```
    sdict = {}
```

```
    for word in slist:
```

```
        if word in sdict:
```

```
            sdict[word] += 1
```

```
        else:
```

```
            sdict[word] = 1
```

```
    print(sdict)
```

```
#=====main=====#
```

```
while (1):
```

```
    print("\n\n***** M e n u *****\n")
```

```
    print("1. Display the word with the longest length ")
```

```
    print("2. Determine the frequency of occurrence of particular character in string ")
```

```
    print("3. Check whether given string is palindrome or not ")
```

```
    print("4. Display index of first appearance of the substring ")
```

```
    print("5. count the occurrences of each word in a given string")
```

```
    print("0. Exit")
```

```
    choice = int(input("Enter Choice (Press 0 For Exit):- "))
```

```
    print("\n*****")
```

```
    if choice == 1:
```

```
        longestWord()
```

```
    elif choice == 2:
```

```
        freqOfChar()
```

```
    elif choice == 3:
```

```
        isPalindrome()
```

```
    elif choice == 4:
```

```
        findSubstr()
```

```
    elif choice == 5:
```

```
        countOfWords()
```

```
    elif choice == 0:
```

```
        break
```

```
    else:
```

```
        print("Wrong Choice")
```