Experiment 2.1

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Branch: CSE **Section/Group:607A**
Semester: 4th **Date of Performance: 04/03/2022**
Subject Name:Programming in Python Lab **Subject Code: 22E-20CSP-259**

1) **Aim/Overview of the practical:**

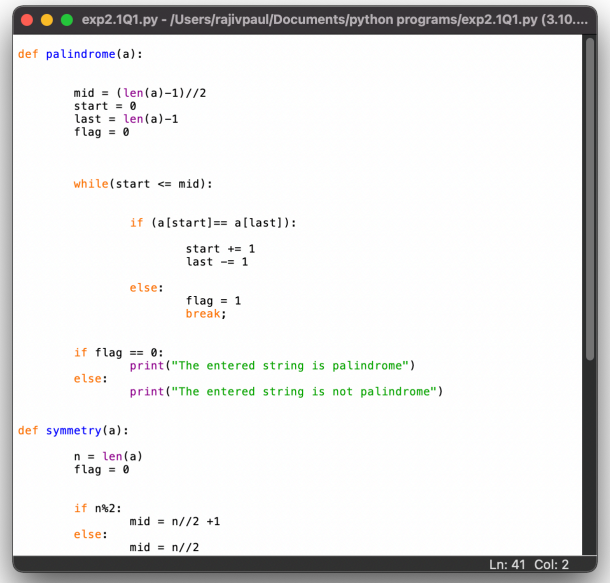
Q1. Python program to check whether the string is Symmetrical or Palindrome.

2) Task to be done/ Which logistics used:

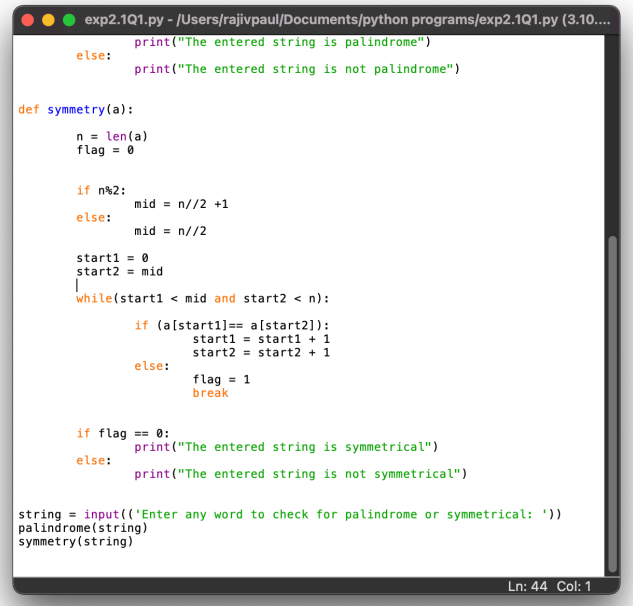
To write a python program to check whether the string is Symmetrical or Palindrome

3) Algorithm/Flowchart (For programming based labs):

4) Steps for experiment/practical/Code:



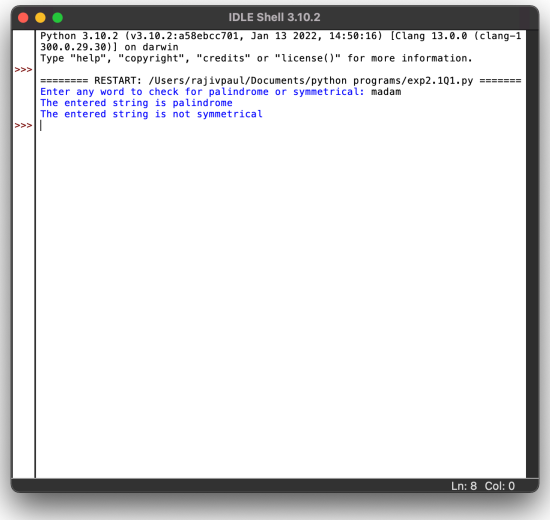

```
def palindrome(a):

        mid = (len(a)-1)//2
        start = 0
        last = len(a)-1
        flag = 0


        while(start <= mid):

                if (a[start]== a[last]):

                        start += 1
                        last -= 1

                else:
                        flag = 1
                        break;


        if flag == 0:
                print("The entered string is palindrome")
        else:
                print("The entered string is not palindrome")

def symmetry(a):

        n = len(a)
        flag = 0


        if n%2:
                mid = n//2 +1
        else:
                mid = n//2
```




```
                print("The entered string is palindrome")
        else:
                print("The entered string is not palindrome")


def symmetry(a):

        n = len(a)
        flag = 0


        if n%2:
                mid = n//2 +1
        else:
                mid = n//2

        start1 = 0
        start2 = mid

        while(start1 < mid and start2 < n):

                if (a[start1]== a[start2]):
                        start1 = start1 + 1
                        start2 = start2 + 1
                else:
                        flag = 1
                        break


        if flag == 0:
                print("The entered string is symmetrical")
        else:
                print("The entered string is not symmetrical")


string = input(('Enter any word to check for palindrome or symmetrical: '))
palindrome(string)
symmetry(string)
```

5. Observations/Discussions/ Complexity Analysis:

6. Result/Output/Writing Summary:



1) **Aim/Overview of the practical:**

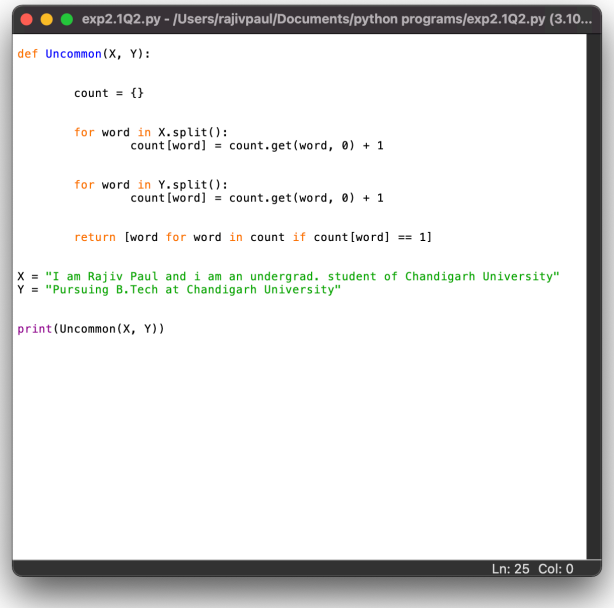
Q2. Python program to find uncommon words from two Strings

2) Task to be done/ Which logistics used:

To write a program to find uncommon words from two Strings .

3) Algorithm/Flowchart (For programming based labs):

4) Steps for experiment/practical/Code:



5. Observations/Discussions/ Complexity Analysis:

6. Result/Output/Writing Summary:

1) **Aim/Overview of the practical:**

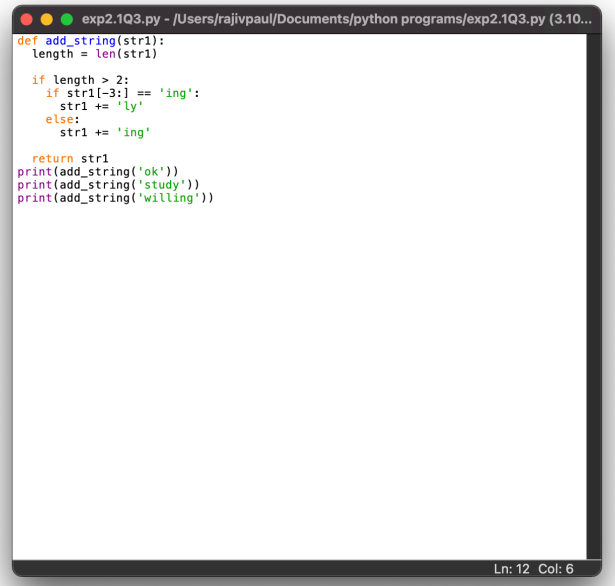
Q3. Write a Python program to add 'ing' at the end of a given string (length should be at least 3). If the given string already ends with 'ing' then add 'ly' instead. If the string length of the given string is less than 3, leave it unchanged. Example:- Sample String : 'abc' Expected Result : 'abcing' Sample String : 'string' Expected Result : 'stringly'

2) Task to be done/ Which logistics used:

To write a program to add 'ing' at the end of a given string (length should be at least 3). If the given string already ends with 'ing' then add 'ly' instead. If the string length of the given string is less than 3, leave it unchanged. Example:- Sample String : 'abc' Expected Result : 'abcing' Sample String : 'string' Expected Result : ‘stringly' .

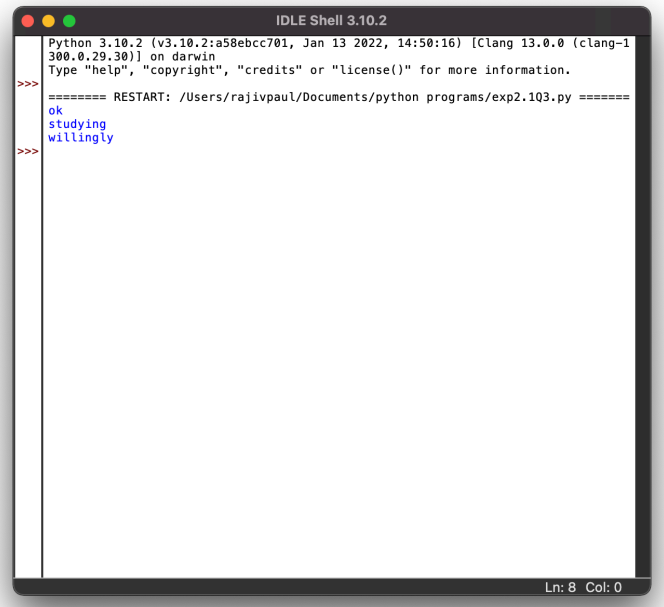
3) Algorithm/Flowchart (For programming based labs):

4) Steps for experiment/practical/Code:



5. Observations/Discussions/ Complexity Analysis:

6. Result/Output/Writing Summary:



Learning outcomes (What I have learnt):

1. **Learnt about python programming language.**
2. **Learnt about strings and its different methods.**
3.
4.
5.

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			