



# Worksheet 2.1

Student Name : UID:

Branch: CSE BTECH Section/Group:

Semester: 4<sup>th</sup> Date of Performance: 16/03/2022

**Subject Name: PYTHON** 

### 1. Aim/Overview of the practical:

Python program to check whether the string is Symmetrical or Palindrome

CODE IN TEXT FORM

```
def palindrome(a):
    mid = (len(a)-1)//2
    start = 0
    last = len(a)-1
    flag = 0
    while(start <= mid):</pre>
        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
    start1 = 0
    start2 = mid
    while(start1 < mid and start2 < n):</pre>
        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")
# Driver code
string = 'amaama'
palindrome(string)
symmetry(string)
```

CODE IN COMPILER -













#### **OUTPUT-**

```
python -u "/Users/rajdeepjaiswal/Desktop/Codes/py practice/R.PY"
rajdeepjaiswal@Rajdeeps-Air py practice % python -u "/Users/rajdeepjaiswal/Desktop/Codes/py practice/R.PY"
The entered string is symmetrical
rajdeepjaiswal@Rajdeeps-Air py practice % python -u "/Users/rajdeepjaiswal/Desktop/Codes/py practice/R.PY"
The entered string is palindrome
The entered string is symmetrical
rajdeepjaiswal@Rajdeeps-Air py practice %
The entered string is symmetrical
rajdeepjaiswal@Rajdeeps-Air py practice %
```

## 2 . Python program to find uncommon words from two Strings

```
CODE IN TEXT FORM
```

```
def UncommonWords(A, B):
    count = {}

    for word in A.split():
        count[word] = count.get(word, 0) + 1

    for word in B.split():
        count[word] = count.get(word, 0) + 1

    return [word for word in count if count[word] == 1]

A = "I AM A GOOD PERSON"

B = "YESS, I AM A GOOD PERSON"

print(UncommonWords(A, B))
```







#### CODE IN COMPILER -

```
Get Started
                                                            R.PY
             prime.py
                            natural.py
                                                                           perfect.py
R.PY > 1 UncommonWords
    def UncommonWords(A, B):
        count = {}
        for word in A.split():
             count[word] = count.get(word, 0) + 1
        for word in B.split():
             count[word] = count.get(word, 0) + 1
        return [word for word in count if count[word] == 1]
    A = "I AM A GOOD PERSON"
                                                                 I
    B = "YESS, I AM A GOOD PERSON"
    print(UncommonWords(A, B))
```

#### **OUTPUT** –

```
python -u "/Users/rajdeepjaiswal/Desktop/Codes/py practice/R.PY"
rajdeepjaiswal@Rajdeeps-Air py practice % python -u "/Users/rajdeepjaiswal/Desktop/Codes/py practice/R.PY"
['YESS,']
rajdeepjaiswal@Rajdeeps-Air py practice % python -u "/Users/rajdeepjaiswal/Desktop/Codes/py practice/R.PY"
['YESS,']
rajdeepjaiswal@Rajdeeps-Air py practice %
```







3. 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'

#### **CODE IN TEXT FORM -**

```
def add_string(str1):
    length = len(str1)

if length > 2:
    if str1[-3:] == 'ing':
        str1 += 'ly'
    else:
        str1 += 'ing'

return str1
print(add_string('ab'))
print(add_string('abc'))
print(add_string('string'))
```

#### CODE IN COMPILER-

```
d Get Started
               prime.py
                                                              R.PY
                                                                             LY.PY
♣ LY.PY > ...
      def add_string(str1):
       length = len(str1)
       if length > 2:
          if str1[-3:] == 'ing':
          else:
            str1 += 'ing'
       return str1
      print(add_string('ab'))
      print(add_string('abc'))
      print(add_string('string'))
 14
```







### **OUTPUT** -

ab
abcing
stringly
rajdeepjaiswal@Rajdeeps-Air py practice %
Ln 14, Col 1







## 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.			

