NAME : W.VIVIYAN RICHARDS

DEP.NO :205229133 SUBJECT : PYTHON

ASSIGNMENT:PSPRLAB ASSIGNMENT-9

Question7. Develop a function remove_adjacent(). Given a list of numbers, return a list where all adjacent same elements have been reduced to a single element. You may create a new list or the modify the passed in list.

Source code:

```
def remove_adjacent(nums):
    result = [] for
    num in nums:
    if len(result) == 0 or num != result[-1]:
    result.append(num) return result
    Output:
    nums = [1, 2, 2, 2, 3]
    [1, 2, 3]
```

Question8.Write a function verbing(). given a string, if it is at least 3, add 'ing' to its end. Unless it already ends in 'ing', in which case add 'ly' instead. If the string length is less than 3, leave it unchanged. Return the resulting string. So 'hail' yieldss: 'hailing;" swimming':

Source code:

```
def verbing(s):
    length = len(s)

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

```
s += 'ing'
return s

Output:
>>verbing('hail')
' hailing'
>>verbing('heal')
' healing'
```

Question 9. Develop a function not_bad(). Given a string, find the first apperance of the substring 'not' and 'bad'f ollows the 'not',replace the whole 'not'...'bad' substring with 'good'.

Return the resulting string. So 'This dinner is not that b ad!' yields: This dinner is good!

Source code:

```
def not_bad(s):
    snot = s.find('not') sbad = s.find('bad') if
    sbad>snot: s =
    s.replace(s[snot:(sbad+3)],'good')
    return s
```

Output:

```
>>not_bad("This dinner is not not that bad!") 'This dinner is good!'
```

>>not_bad("This cricket match is not not that bad!")
'This cricket match is good!'

LAB6.PYTHON FILE PROCESSING Question1.

Write a program for Password Management Sy stem

Source code:

```
def register():
            username = input("please input the first 2 letters of your first
 name and your birth year") password = input("please input your
     desired password") file = open("loginfile.txt","a")
     file = write(username)
     file.write("") file.write(password)
     file.write("\n") file.close() if
     login(): print("you are logged
     in....")
     else: print("you aren't logged in!")
def login():
     username = input("please Enter your Name:")
     password = input("please Enter your password:") for
     line in open("loginfile.txt","r").readlines():
          login info = lint.split()
               if username == login info[0] and password == login info
[1]:
               print("correct credentials!") return
               True
          print("Incorrect credentials") return
          False
```

Output:

```
please input the first 2 letters of your first name and your birth year: halppp please input your desired password: ds112 You are logged in... please enter your name: sudhan please enter your password: fd34 Incorrect credentials.
```

Question7. Develop a function remove_adjacent(). Given a list of numbers, return a list where all adjacent same elements have been reduced to a single element. You may create a new list or modify the passed in list.

Test Cases:

- Input: [1, 2, 2, 3] and output: [1, 2, 3]
- Input: [2, 2, 3, 3, 3] and output: [2, 3] 2.
- 3. Input: []. Output: [].
- 4. Input: [2,5,5,6,6,7]
- Output: [2,5,6,7] 5. Input: [6,7,7,8,9,9]
- Output: [6,7,8,9]

deb varove cooperat (nums):

for num in nums:

16. pullous) == 0.01 um 1 = 1501/1[-]:

Texull. append (rum)

neturn result.

romove-adjacent (nums)

nums: [2,2,5,3] nemore - adjacent (nums)

nums= [2,2,3] tenuve adjacent (runs)

nums: []
nemove_adjacens(nums)

nums = [6,7,7,8,9,7] remove - adjacent (nums)

CamScanner

Question8. Write a function verbing(). Given a string, if its length is at least 1, add 'ung' to its end. Unless it already ends in 'ing', in which case add 'ly' instead. If the string length is less than 3, leave it unchanged. Return the resulting string. So 'hail' yields: hailing; 'swhiming' yields: swimmingly; 'do' yields: do.

erreferrers

600

11111111

111111

Scanned with CamScanner

Question9. Develop a function not_bad(). Given a string, find the first appearance of the substring 'not' and 'bad'. If the 'bad' follows the 'not', replace the whole 'not'...'bad' substring with 'good'.

Return the resulting string. So 'This dinner is not that bad!' yields: This dinner is good!

Problem Solving Using Python and R Lab Lab6. Python File Processing

Question1. Write a program for Password Management System

- File creation: Ask user to enter N user names and their passwords. Store usernames and passwords into a file named "loginfile.txt". Store each user and password in one line.
- File Processing: Write a program that opens your "security.txt" file and reads usernames and passwords from it. Store user names in one list and passwords in another lists.

Querying: ask user to enter user name and password for verification. If they match the values stored in the lists, print a message "Login Successful". Otherwise print a message "Login Failed, try again". sousce Code: username = input ("please input the office 2 betters of yourfirst name and your birth year")

password = input ("please input your desired pastword")

Aple = Open ("loginatile txt", "a") det regs(); Ale = Write (usernance)

Ale . Write (")

Ale . Write (postwood)

Ale . writ ("\n")

Ale . Close() if bosin():
Print ("you are bogged in...") obse:

point (" you aren't bagged in!")

dof login():

become = input (" please Enter your Name:")

pouss word = input (" please Enter your Name:")

pouss word = input (" please Enter your poussioned:")

for line in open " login file. txt"; " ~ "). readines():

login = info = lint = split ()

wername == login = info [o] and poussioned == login = info.

[I]: Print (" Correct Createntfals!") Print ("Correct Credentials!")
testum True
Print ("Incorrect Credentials") Department of Data Science | Bishop Heber College (Auto) | Tiruchirappalli DR. K. RAJKUMAR

Scanned with amScanner