# Rajalakshmi Engineering College

Name: Monisha S
Email: 240701335@rajalakshmi.edu.in
Roll no: 240701335
Phone: 9444043820
Branch: REC
Department: I CSE FD
Batch: 2028
Degree: B.E - CSE

Scan to verify results

## NeoColab_REC_CS23221_Python Programming

## REC_Python_Week 3_CY

Attempt : 1
Total Mark : 30
Marks Obtained : 30

## Section 1 : Coding

1. Problem Statement

A company is creating email accounts for its new employees. They want to use a naming convention for email addresses that consists of the first letter of the employee's first name, followed by their last name, followed by @company.com.

The company also has a separate email domain for administrative employees.

Write a program that prompts the user for their first name, last name, role, and company and then generates their email address using the appropriate naming convention based on their role. This is demonstrated in the below examples.

Note:

The generated email address should consist of the first letter of the first name, the last name in lowercase, and a suffix based on the role and company, all in lowercase.

***Input Format***

The first line of input consists of the first name of an employee as a string.

The second line consists of the last name of an employee as a string.

The third line consists of the role of the employee as a string.

The last line consists of the company name as a string.

***Output Format***

The output consists of a single line containing the generated email address for the employee, following the specified naming convention.

Refer to the sample output for the formatting specifications.

***Sample Test Case***

Input: John
Smith
admin
iamNeo
Output: jsmith@admin.iamneo.com

***Answer***

```
# You are using Python
a=input()
b=input()
c=input()
d=input()
a=a.lower()
b=b.lower()
c=c.lower()
d=d.lower()
if c == "admin":
    print(a[0],b,"@",c,".",d,".com")
```

```
else:
    print(a[0],b,"@",d,".com")
```

***Status :*** Correct **Marks : 10/10**

2. Problem Statement

Write a program to check if a given string is perfect.

A perfect string must satisfy the following conditions:

The string starts with a consonant.The string alternates between consonants and vowels.Each consonant appears exactly once.Vowels can occur consecutively multiple times but should not be followed immediately by a consonant.

If the string satisfies all these conditions, print “True”; otherwise, print “False”.

***Input Format***

The input consists of a string.

***Output Format***

The output prints "True" if the string is perfect. Otherwise, print "False".

Refer to the sample output for formatting specifications.

***Sample Test Case***

Input: capacitor
Output: True

***Answer***

```
# You are using Python
s=input()
s=s.lower()
l=len(s)
f=0
```

```
for i in range(0,l):
    if(i==0):
        if(s[i]  in "aeiou"):
            f=1
            break

    else:
        if(s[i-1] not in "aeiou"):#it is consonant
            if(s[i] not in "aeiou"):
                f=1
                break
if f==1:
    print("False")
else:
    print("True")
```

***Status :*** Correct **Marks : 10/10**

3. Problem Statement

Emily is a data analyst working for a company that collects feedback from customers in the form of text messages. As part of her data validation tasks, Emily needs to perform two operations on each message:

Calculate the sum of all the digits mentioned in the message.If the sum of the digits is greater than 9, check whether the sum forms a palindrome number.

Your task is to help Emily automate this process by writing a program that extracts all digits from a given message, calculates their sum, and checks if the sum is a palindrome if it is greater than 9.

***Input Format***

The input consists of a string s, representing the customer message, which may contain letters, digits, spaces, and other characters.

***Output Format***

The output prints an integer representing the sum of all digits in the string, followed by a space.

If the sum is greater than 9, print "Palindrome" if the sum is a palindrome, otherwise print "Not palindrome".

If the sum is less than or equal to 9, no palindrome check is required.

Refer to the sample output for the formatting specifications.

***Sample Test Case***

Input: 12 books 4 pen
Output: 7

***Answer***

```
# You are using Python
n=input()
c=0
for i in n:
    if i in "1234567890":
        i=int(i)
        c+=i
    else:
        continue

t=c
rev=0

while(t!=0):
    rem=t%10
    rev=rev*10+rem
    t//=10
if(rev==c):
    x=1
else:
    x=0

if c<=9:
```

```
    print(c)
else:
    print(c,end=" ")
    if(x):
        print("Palindrome")
    else:
        print("Not palindrome")
```

***Status :*** Correct ***Marks : 10/10***