

Rajalakshmi Engineering College

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NeoColab_REC_CS23221_Python Programming

REC_Python_Week 3_CY

Attempt : 1
Total Mark : 30
Marks Obtained : 30

Section 1 : Coding

1. 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

s=input()

digit_sum=sum(int(c) for c in s if c.isdigit())

print(digit_sum, end=" ")

if digit_sum > 9:

if str(digit_sum) == str(digit_sum)[::-1]:

print("Palindrome")

else:

print("Not Palindrome")

Status : Correct

Marks : 10/10

2. 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
f=input()
l=input()
r=input()
c=input()
```

```
f_i=f[0].lower()
l=l.lower()
r=r.lower()
c=c.lower()
```

```
if r== "admin":
    print(f"{f_i}{l}@admin.{c}.com")
else:
    print(f"{f_i}{l}@{c}.com")
```

Status : Correct

Marks : 10/10

3. Problem Statement

Raj wants to write a program that takes a list of strings as input and returns the longest word in the list. If there are multiple words with the same length, the program should return the first one encountered.

Help Raj in his task.

Input Format

The input consists of a single line of space-separated strings.

Output Format

The output prints a string representing the longest word in the given list.

Refer to the sample output for formatting specifications.

Sample Test Case

Input: cat dog elephant lion tiger giraffe

Output: elephant

Answer

```
# You are using Python
```

```
input_line = input()
```

```
words = input_line.split()
```

```
longest_word = words[0]
```

```
for word in words[1:]:
```

```
    if len(word) > len(longest_word):
```

```
        longest_word = word
```

```
print(longest_word)
```

Status : Correct

Marks : 10/10