

DAILY ONLINE ACTIVITIES SUMMARY

Date:	06-06-2020	Name:	ASHIKA
Sem & Sec	6 A	USN:	4AL17CS016
Online Test Summary			
Subject	PAP		
Max. Marks	30	Score	13
Certification Course Summary			
Course	Python for data science		
Certificate Provider	Cognitive class	Duration	5 hour
Coding Challenges			
Problem Statement: 1. Write a program in C to rotate an array by N positions.			
Status:done(executed)			
Uploaded the report in Github		yes	
If yes Repository name		https://github.com/ASHIKA-05/DAILY-REPORT	
Uploaded the report in slack		yes	

SUBJECT: PAP

techgig.com/challenge/result/round-1/WXV3L3I1V2FvTjg0M21uOHdQV1B1UT09

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Results Analytics

Round 1
Your Score **13** / 30

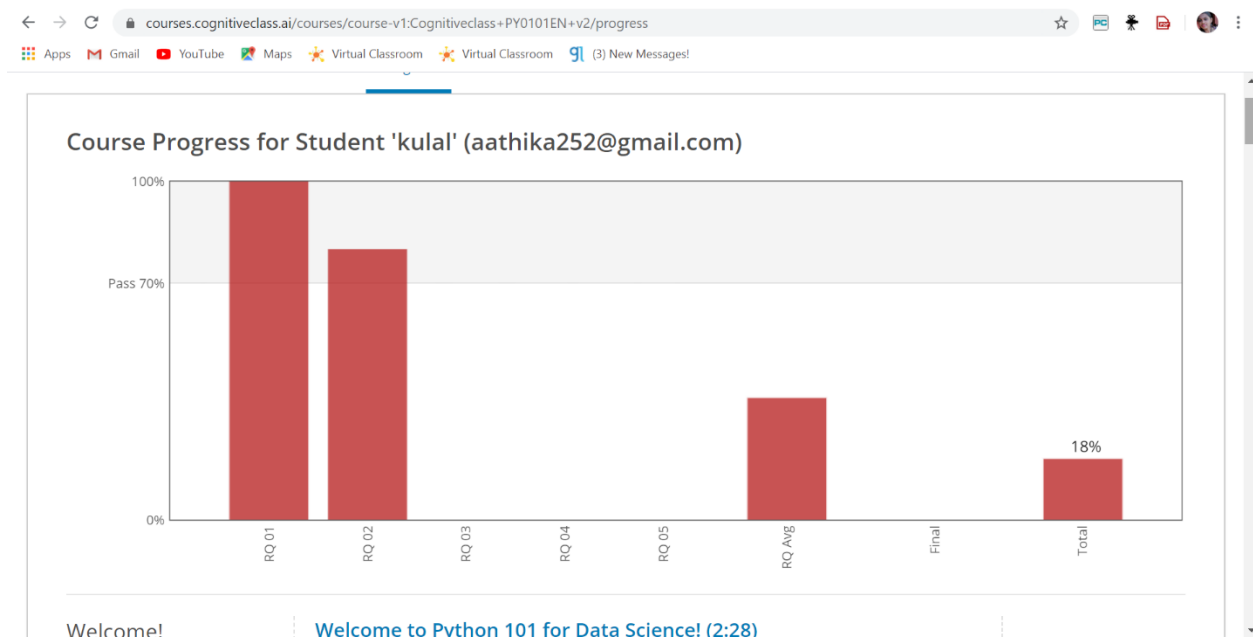
CERTIFICATION COURSE

I HAVE STUDIED MODULE-2 FOR PYTHON FOR DATA SCIENCE

.set

.dictionary

.Example of list and tuples



ONLINE CODEING

1. Write a program in C to rotate an array by N positions.

Expected Output :

The given array is : 0 3 6 9 12 14 18 20 22 25 27

Enter the Position N from where you want to rotate: 4

From 4th position the values of the array are : 12 14 18 20 22 25 27

Before 4th position the values of the array are : 0 3 6 9

After rotating from 4th position the array is:

12 14 18 20 22 25 27 0 3 6 9

```
#include <stdio.h>
void shiftArr1Pos(int *arr1, int arrSize)
{
    int i, temp;
    temp = arr1[0];
    for(i = 0; i < arrSize-1; i++)
    {
        arr1[i] = arr1[i+1];
    }
    arr1[i] = temp;
}
void arr1Rotate(int *arr1, int arrSize, int rotFrom)
{
    int i;
    for(i = 0; i < rotFrom; i++)
    {
        shiftArr1Pos(arr1, arrSize);
    }
    return;
}
int main()
{
    int arr1[] = {0,3,6,9,12,14,18,20,22,25,27};
    int ctr = sizeof(arr1)/sizeof(arr1[0]);
    int i;
    printf("The given array is : ");
    for(i = 0; i < ctr; i++)
    {
        printf("%d ", arr1[i]);
    }
    printf("\n");
```

```

        printf("From 4th position the values of the array are : ");
        for(i = 4; i < ctr; i++)
        {
            printf("%d ", arr1[i]);
        }
        printf("\n");
        printf("Before 4th position the values of the array are : ");
        for(i = 0; i < 4; i++)
        {
            printf("%d ", arr1[i]);
        }
        printf("\n");
        arr1Rotate(arr1, ctr, 4);
        printf("\nAfter rotating from 4th position the array is: \n");
        for(i = 0; i < ctr; i++)
        {
            printf("%d ", arr1[i]);
        }
        return 0;
    }
}

```

Output:

```

C:\Users\Hp\Documents\Project16578.exe
The given array is : 0 3 6 9 12 14 18 20 22 25 27
From 4th position the values of the array are : 12 14 18 20 22 25 27
Before 4th position the values of the array are : 0 3 6 9

After rotating from 4th position the array is:
12 14 18 20 22 25 27 0 3 6 9
-----
Process exited after 1.795 seconds with return value 0
Press any key to continue . . .

```

2. Write a Python program to perform Cyclic Redundancy Check

CRC uses Generator Polynomial which is available on both sender and receiver side. An example generator polynomial is of the form like $x^3 + x + 1$. This generator polynomial represents key 1011. Another example is $x^2 + 1$ that represents key 101.

Data word to be sent - 100100

Key - 1101 [Or generator polynomial $x^3 + x^2 + 1$]

```
def xor(a, b):
```

```
    result = []
```

```
    for i in range(1, len(b)):
```

```
        if a[i] == b[i]:
```

```
            result.append('0')
```

```
        else:
```

```
            result.append('1')
```

```
    return ''.join(result)
```

```
def mod2div(divident, divisor):
```

```
    pick = len(divisor)
```

```
    tmp = divident[0 : pick]
```

```
    while pick < len(divident):
```

```
if tmp[0] == '1':
```

```
    tmp = xor(divisor, tmp) + dividend[pick]
```

```
else:
```

```
    tmp = xor('0'*pick, tmp) + dividend[pick]
```

```
    pick += 1
```

```
if tmp[0] == '1':
```

```
    tmp = xor(divisor, tmp)
```

```
else:
```

```
    tmp = xor('0'*pick, tmp)
```

```
checksum = tmp
```

```
def encodeData(data, key):
```

```
    l_key = len(key)
```

```
    appended_data = data + '0'*(l_key-1)
```

```
    remainder = mod2div(appended_data, key)
```

```
    codeword = data + remainder
```

```
    print("Remainder : ", remainder)
```

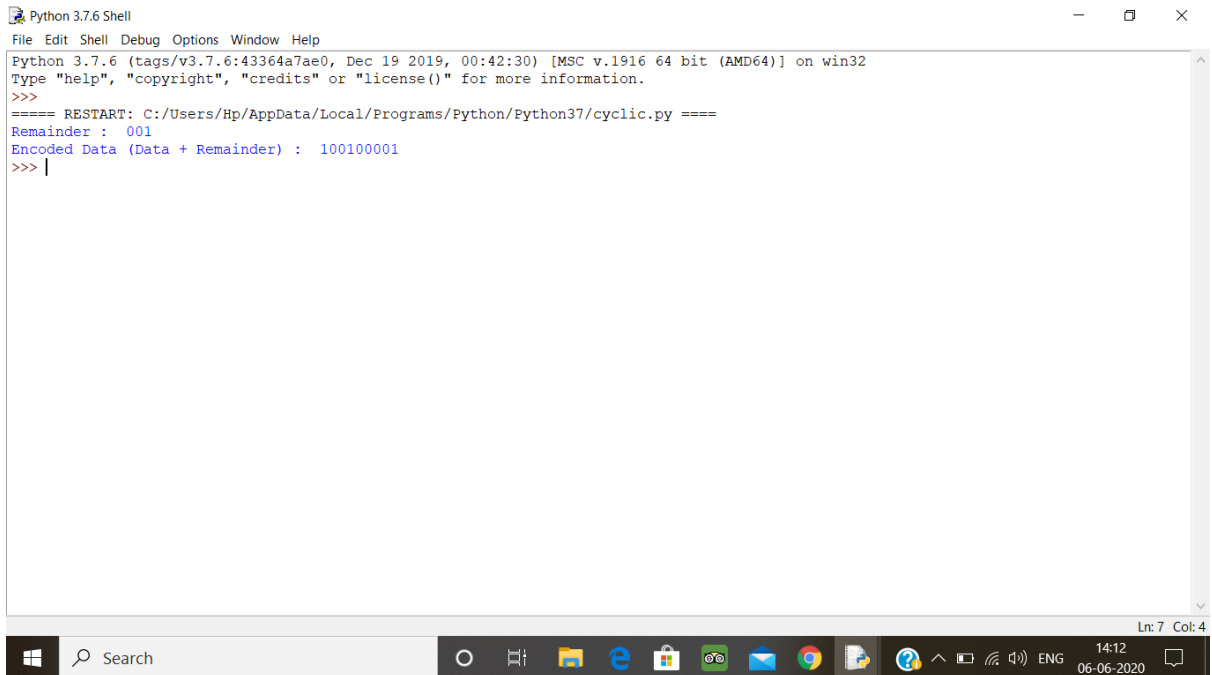
```
print("Encoded Data (Data + Remainder) : ",
```

```
data = "100100"
```

```
key = "1101"
```

```
encodeData(data, key)
```

output:



```
Python 3.7.6 Shell
File Edit Shell Debug Options Window Help
Python 3.7.6 (tags/v3.7.6:43364a7ae0, Dec 19 2019, 00:42:30) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/Hp/AppData/Local/Programs/Python/Python37/cyclic.py =====
Remainder : 001
Encoded Data (Data + Remainder) : 100100001
>>> |
```

3. Description:

Write a Python program to count the number of strings, provided string length is 2 or more and the first and last character are same from a given list of strings.

Eg:

Input

```
list1['hia', 'aba', '363']
```

Output:

Number of strings with first and last cahracter is same: 2

```
def match_words(words):
```

```
    ctr = 0
```

for word in words:

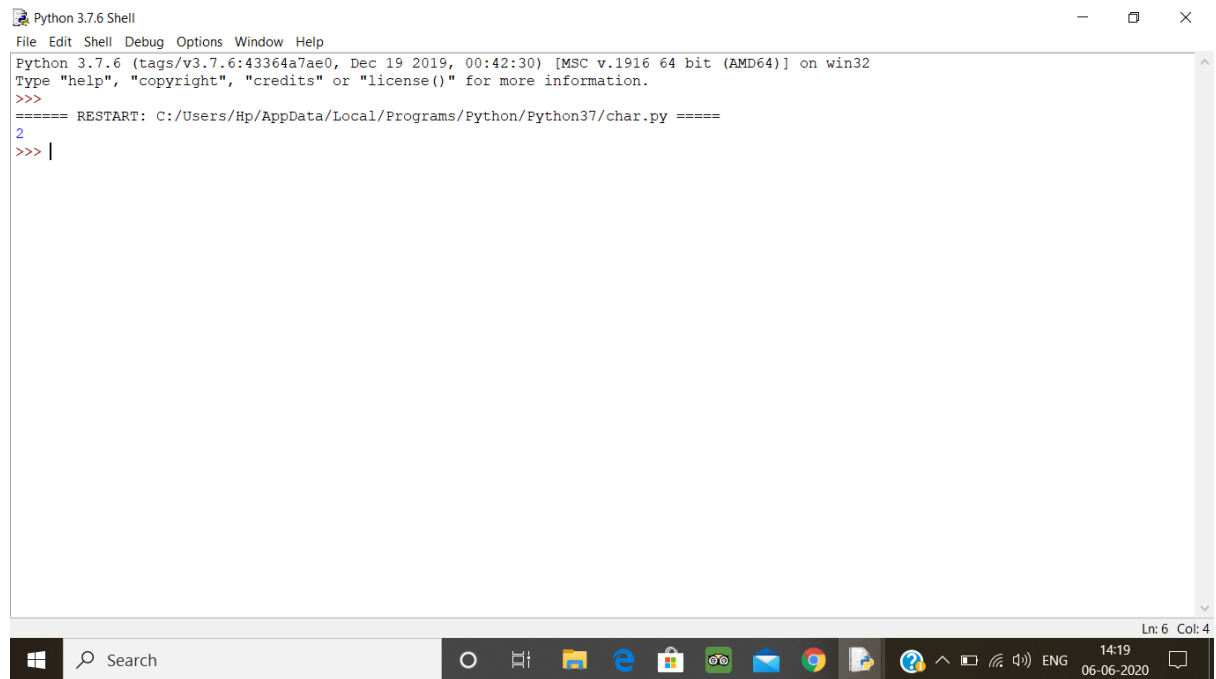
if len(word) > 1 and word[0] == word[-1]:

ctr += 1

return ctr

print(match_words(['hia', 'aba', '363']))

output:



The screenshot shows a Windows desktop with a taskbar at the bottom. The taskbar includes the Start button, a search bar, and several application icons: File Explorer, Edge, Store, Teams, Mail, Chrome, and a document icon. The system tray on the right shows the time as 14:19 and the date as 06-06-2020. A Python 3.7.6 Shell window is open, displaying the following text:

```
Python 3.7.6 Shell
File Edit Shell Debug Options Window Help
Python 3.7.6 (tags/v3.7.6:43364a7ae0, Dec 19 2019, 00:42:30) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/Hp/AppData/Local/Programs/Python/Python37/char.py =====
2
>>> |
```

The window title bar reads "Python 3.7.6 Shell". The status bar at the bottom right of the window shows "Ln: 6 Col: 4".