

## DAILY ONLINE ACTIVITIES SUMMARY

Date:	06-06-2020	Name:	M.C Suchithra Heggade
Sem & Sec	6 <sup>th</sup> Sem 'A' Sec	USN:	4AL17CS047
Online Test Summary			
Subject	Python		
Max. Marks	30	Score	25
Certification Course Summary			
Course	Front end Development-HTML		
Certificate Provider	Great Learning	Duration	5 hr
Coding Challenges			
<h3>Rotate array</h3> <p>Write a program in C to rotate an array by N positions.</p> <h3>CRC</h3> <p>Write a Python program to perform Cyclic Redundancy Check</p> <h3>Count the number of strings</h3> <p>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.</p>			
Status: Completed			

<b>Uploaded the report in Github</b>	<b>yes</b>
<b>If yes Repository name</b>	<a href="https://github.com/Suchitraheggade/certification-and-Online-coding">https://github.com/Suchitraheggade/certification-and-Online-coding</a>
<b>Uploaded the report in slack</b>	<b>yes</b>

## Online Test Details:

## Python:

The screenshot shows a web browser window with the following details:

- Browser Tabs:** (no subject) - sucheetra6565@g... | Largest Tech Community | Hack...
- Address Bar:** techgig.com/challenge/result/round-1/RnBTSHByVTJsT25qd3hkcEdjIZEkrUT09
- Page Content:**
  - Test Completed!**
  - You have successfully participated in Python IA Test3.
  - Rate this Test**
  - Your Rating: ★★★★★ • Click to Rate
- Results Section:**
  - Results** (selected) | Analytics
  - Round 1
  - Your Score **25** / 30
- Footer:** This site uses cookies so that we can remember you and understand how you interact with our website. This allows us to improve and customize your browsing experience. To find out more about the cookies we use, see our [Cookies Policy](#).
- Windows Taskbar:** Search bar, taskbar icons (including Chrome, Edge, etc.), system tray showing 11:11 and 06-06-2020.

## Certification Course Details:

Topics completed:

More on Head Tags.

Heading Tag.

The screenshot displays a web browser window with the Great Learning website. The address bar shows the URL: [olympus.greatlearning.in/courses/12761/pages/5-more-on-head-tags?module\\_item\\_id=546639](https://olympus.greatlearning.in/courses/12761/pages/5-more-on-head-tags?module_item_id=546639). The page header includes the Great Learning logo and navigation links: Home, Live Sessions, Certificates, and a My Courses button. The main content area is titled '5. More on Head Tags' and features a sidebar with a 'Content' section listing various HTML topics. The '5. More on Head Tags' item is selected and highlighted. The main content area shows a code editor with the following HTML code:

```
<html>
<head>
  <title>More about tags in the head</title>
  <meta>
</head>
<body>
  Hello world
</body>
</html>
```

The code editor also displays an 'OUTLINE' section with a tree view of the document structure: html, head, body, meta, and title. A small video player is visible in the bottom right corner of the code editor, showing a person speaking. The Windows taskbar at the bottom indicates the time is 19:41 on 03-06-2020.

6. Heading tag: Front end D... x +

olympus.greatlearning.in/courses/12761/pages/6-heading-tag-2?module\_item\_id=546641

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Courses / Front end Development - HTML / 6. Heading tag

Content

- 4. Paragraph Tags
- Paragraph Tags
- 5. More on Head Tags
- More on HEAD Tags
- 6. Heading tag
- Heading Tag
- 7. Hr and Br Tags
- Hr and Br Tag
- 8. Anchor Tag
- Anchor Tag
- 9. Absolute and Relative path
- Absolute and Relative path

## 6. Heading tag

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4 <meta charset="UTF-8">
5 <meta name="viewport" content="width=device-width, initial-scale=1">
6 <meta http-equiv="X-UA-Compatible" content="ie=edge">
7 <title>Document</title>
8 </head>
9 <body>
10 <p>
11 Rahman (born Roshin Rahman) is an Indian film actor who has starred in over 100 films,
12 primarily Malayalam, Tamil and Telugu films.[1] In Tamil and Telugu cinema, he is also
13 known by the screen names Raghubar and Raghu.
14 </p>
15 <ul>
16 <li>He won his first Kerala State Award
17 in Malayalam cinema during the
18 during the late 1980s and early
19 during the 1990s. He did make a
20 ting in leading and supporting
21 roles in Tamil and Telugu films after the 2000s.[2]
22 </li>
23 </ul>
24 </body>
25 </html>
```

19:47 03-06-2020

## Coding Challenges Details:

# 1.Rotate array

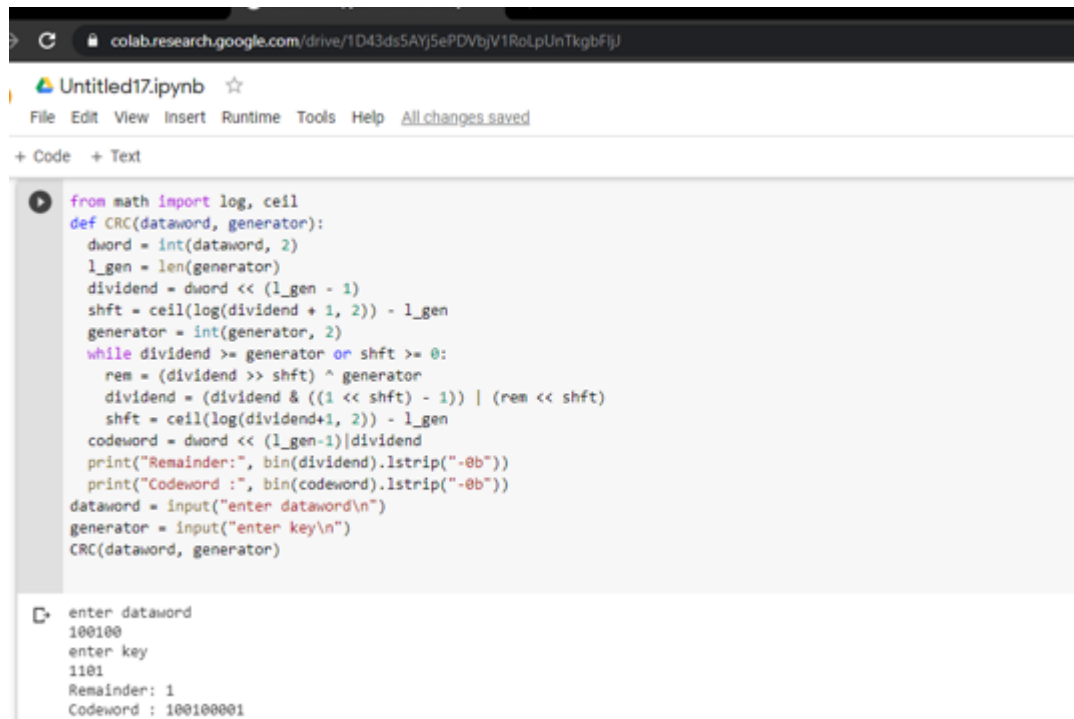
Write a program in C to rotate an array by N positions.

```
enter the size of the array: 10
enter the array elements: 1 2 4 5 78 9 6 3 0 0
Enter the Position N from where you want to rotate:4
Original Array
1 2 4 5 78 9 6 3 0 0
Rotated Array
78 9 6 3 0 0 1 2 4 5

...Program finished with exit code 0
Press ENTER to exit console.
```

## 2.CRC

Write a Python program to perform Cyclic Redundancy Check.



```
from math import log, ceil
def CRC(dataword, generator):
    dword = int(dataword, 2)
    l_gen = len(generator)
    dividend = dword << (l_gen - 1)
    shft = ceil(log(dividend + 1, 2)) - l_gen
    generator = int(generator, 2)
    while dividend >= generator or shft >= 0:
        rem = (dividend >> shft) ^ generator
        dividend = (dividend & ((1 << shft) - 1)) | (rem << shft)
        shft = ceil(log(dividend+1, 2)) - l_gen
    codeword = dword << (l_gen-1)|dividend
    print("Remainder:", bin(dividend).lstrip("-0b"))
    print("Codeword :", bin(codeword).lstrip("-0b"))
    dataword = input("enter dataword\n")
    generator = input("enter key\n")
    CRC(dataword, generator)

enter dataword
100100
enter key
1101
Remainder: 1
Codeword : 100100001
```

### 3.Count the number of strings

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.



The screenshot shows a Jupyter Notebook titled 'Untitled18.ipynb'. The code cell contains a function `match_words(words)` that iterates through a list of words, counting those where the first and last characters are the same and the length is greater than 1. The main program prompts the user for a value `n`, creates a list `l` of `n` strings, and then calls `match_words(l)` to print the count.

```
def match_words(words):
    ctr = 0

    for word in words:
        if len(word) > 1 and word[0] == word[-1]:
            ctr += 1
    return ctr

l=[]
n=int(input("enter n value\n"))
print("list contents\n")
for i in range (0,n):
    e=input()
    l.append(e)
print("list: ",l)
print("output\n")
print(match_words(l))
```

The output of the program is as follows:

```
enter n value
4
list contents

121
aha
hai
mom
list: ['121', 'aha', 'hai', 'mom']
output
3
```