

DAILY ONLINE ACTIVITIES SUMMARY

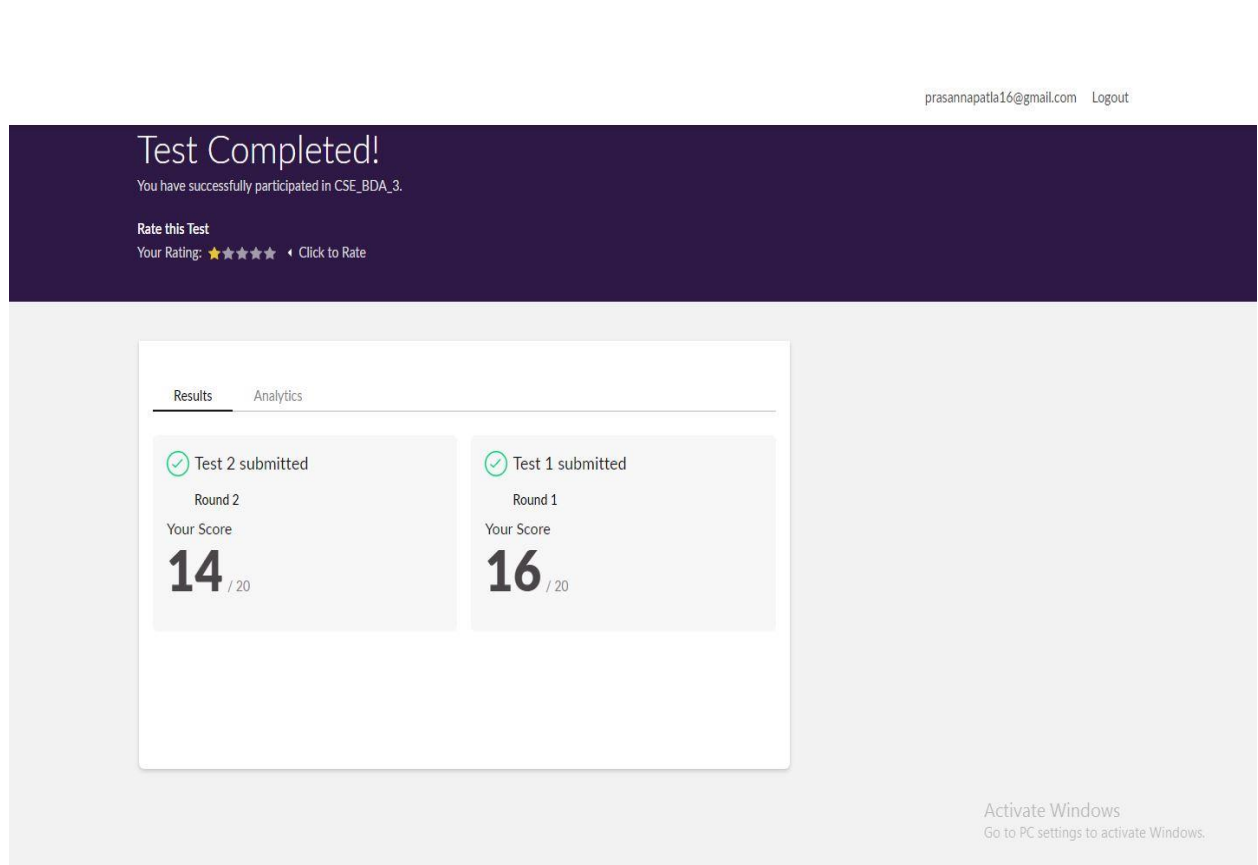
| | | | |
|--|---------------------------------|-----------------|------------|
| Date: | 26-05-2020 | Name: | PRASANNA |
| Sem & Sec | 8 th ,B | USN: | 4AL16CS068 |
| Online Test Summary | | | |
| Subject | BDA | | |
| Max. Marks | 40 | Score | 30 |
| Certification Course Summary | | | |
| Course | Introduction to ethical hacking | | |
| Certificate Provider | Great learner academy | Duration | 6 Hrs |
| Coding Challenges | | | |
| <p>Problem Statement: prob1- <i>To Check whether the given number is palindrome or not</i></p> <p>Problem Statement :Prob2 – <i>To Find minimum time required for array update</i></p> | | | |
| Status: Solved | | | |
| Uploaded the report in Github | | Yes | |
| If yes Repository name | | prasanna_p | |
| Uploaded the report in slack | | Yes | |

Online Test Details: (Attach the snapshot and briefly write the report for the same)

Certification Course Details: (Attach the snapshot and briefly write the report for the same)

Coding Challenges Details: (Attach the snapshot and briefly write the report for the same)

1) Online Test Details:



2) Certification Course Details:

Domains Under Ethical hacking

- Web application Domain
- Mobile
- Network Architecture Domain

Direct communication cannot be achieved across application domains. However, application domains can still talk to each other by passing objects via marshalling by value (unbound objects), marshalling by reference through a proxy (application-domain-bound objects). There is a third type of object called a context-bound object which can be marshalled by reference across domains and also within the context of its own application domain. Because of the verifiable type-safety of managed code, a CLI can provide fault isolation between domains at a much lower cost than an operating system process can. The static type verification used for isolation does not require the same process switches or hardware ring transitions that an operating system process requires.

The screenshot shows the Great Learning website interface. At the top, there is a header with the Great Learning logo, navigation links (Home, Live Sessions), and a user profile icon. The main content area displays the course 'Introduction to Ethical Hacking' with a progress indicator 'Course In Progress'. Below the course title, there is a tabbed interface with 'CONTENT' and 'ASSESSMENTS' tabs. The 'CONTENT' tab is active, showing a list of learning videos. Each video entry includes a play button, the video title, the duration, and a completion status (green checkmark for completed, blue circle for in progress, and white circle for not started).

| Video Title | Duration | Status |
|--|----------|-------------|
| Career and Growth Ladder in Ethical Hacking | 18m | Completed |
| Domains and Process Implementation under Ethical Hacking | 54m | Completed |
| Ethical Hacking in Network Architecture-Demonstration | 48m | Completed |
| Ethical Hacking in Web Applications-Demonstration | 50m | Completed |
| Ethical Hacking on Mobile Platforms-Demonstration | 34m | In Progress |
| What is Ethical Hacking | 50m | Not Started |

Web application domain:

Two major categories:

- Client Side vulnerabilities
- Server side vulnerabilities

All the attacks can be categorized into 3 major attacks:

- Parameter tampering
- Unvalidated inputs
- Directory Traversal attacks

Common web application attacks:

- Injection Flaws eg. SQL injection ,HTML injection etc.
- Cross site , scripting
- Web services attacks eg. DNS cache poisoning, file uploads etc

Hacking methodology:

- Web Footprinting –gathering information
- Vulnerability Scanners –w3af,acunetix
- Identity Entry and attack surface

The screenshot shows the Great Learning website interface. At the top, there is a navigation bar with the Great Learning logo, 'Home', 'Live Sessions', a 'My Courses' button, and a user profile icon. Below the navigation bar, a breadcrumb trail reads 'Courses / Introduction to Ethical Hacking / Domains and Process Implementation under Ethical Hacking'. The main content area is divided into a left sidebar and a main panel. The sidebar, titled 'Content', lists several items under 'Learning Videos': 'Career and Growth Ladder in Ethical Hacking' (marked with a green check), 'Domains and Process Implementation under Ethical Hacking' (the current page, marked with a blue circle), 'Ethical Hacking in Network Architecture-Demonstration', 'Ethical Hacking in Web Applications-Demonstration', 'Ethical Hacking on Mobile Platforms-Demonstration', and 'What is Ethical Hacking'. Below the videos are sections for 'Quiz' and 'Claim Your Course Certificate'. The main panel, titled 'Domains and Process Implementation under Ethical Hacking', features a slide with the heading 'Domains under Ethical Hacking' and a bulleted list: 'Web Application Domain', 'Mobile', 'Network Architecture Domain', and 'And many more..'. At the bottom of the main panel, there are 'Previous' and 'Next' navigation buttons. A Windows watermark is visible in the bottom right corner of the slide.

3) Coding Challenges:

1. To check Whether the given number is palindrome or not

Pgrm1:

```
a = "malayalam"
```

```
b = ""
```

```
for i in a:
```

```
    b = i + b
```

```

if (a==b):
    print("Given String is palindrome")
else:
    print("String is not a palindrome")

```

2.

1. Micro and Array Update

Micro purchased an array A having N integer values. After playing it for a while, he got bored of it and decided to update value of its element. In one second he can increase value of each array element by 1. He wants each array element's value to become greater than or equal to K. Please help Micro to find out the minimum amount of time it will take, for him to do so.

Input:

First line consists of a single integer, T, denoting the number of test cases.

First line of each test case consists of two space separated integers denoting N and K.

Second line of each test case consists of N space separated integers denoting the array A.

Output:

For each test case, print the minimum time in which all array elements will become greater than or equal to K. Print a new line after each test case.

Constraints:

$$1 \leq T \leq 5$$

$$1 \leq N \leq 10^5$$

$$1 \leq A[i], K \leq 10^6$$

| SAMPLE INPUT | SAMPLE OUTPUT |
|-----------------------------------|---------------|
| 2 3 4 1 2 5 3 2 2 5 5 | 3 0 |

Program 2:

```
def micro(k,l):

    c=min(l)
    res=k-c
    return res


t=int(input('enter number of test case: '))
for j in range(0,t):
    l=[]
    a=int(input('Enter number of elements: '))
    k=int(input('enter the value k : '))
    for i in range(0,a):
        m=int(input())
        l.append(m)
    print(l)
    print("minimum time is :",micro(k,l))
```