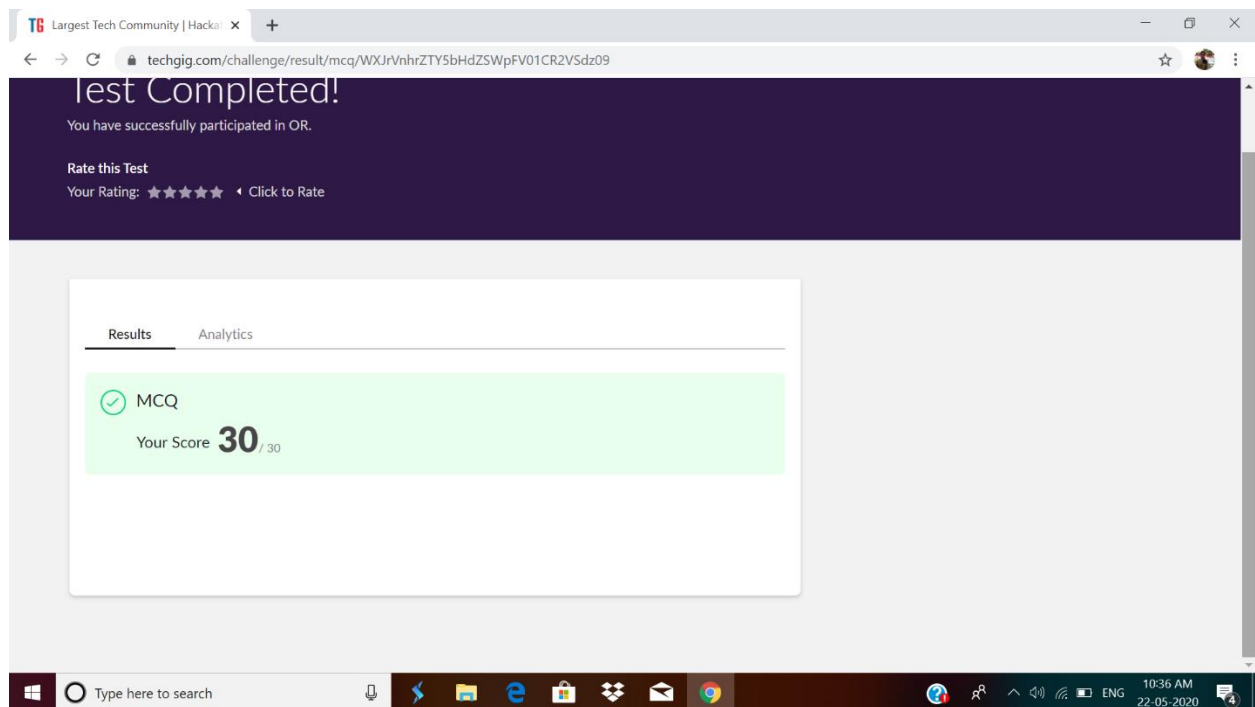


## **DAILY ONLINE ACTIVITIES SUMMARY**

<b>Date:</b>	22-05-2020	<b>Name:</b>	Anvitha Poojary
<b>Sem &amp; Sec</b>	6A	<b>USN:</b>	4AL17CS008
<b>Online Test Summary</b>			
<b>Subject</b>	OR		
<b>Max. Marks</b>	30	<b>Score</b>	30
<b>Certification Course Summary</b>			
<b>Course</b>	Introduction to Ethical Hacking		
<b>Certificate Provider</b>	greatlearning	<b>Duration</b>	6hr
<b>Coding Challenges</b>			
<b>Problem Statement:</b>  1. Write a C Program to implement various operations of Singly Linked List Stack.  2. Write a Java Program to separate the Individual Characters from a String  3. Write a Java Program to find the largest and smallest word in a string.			
<b>Status: completed</b>			
<b>Uploaded the report in Github</b>		<b>Yes</b>	
<b>If yes Repository name</b>		<a href="https://github.com/anvithapo99/REPORT5">https://github.com/anvithapo99/REPORT5</a>	
<b>Uploaded the report in slack</b>		<b>Yes</b>	

## Online test details:

### Subject:OR



## Certification course details:

### Introduction to Ethical Hacking:

Today I have studied following topics:

- Career and growth ladder in ethical hacking
- Domains and process implementation under ethical hacking
- Web application domain
- Common web application attack
- Hacking methodology
- Network domain
- Types of network attack

- Types of android attack.




## Introduction to Ethical Hacking

CONTENT

ASSESSMENTS


### Learning Videos



 Career and Growth Ladder in  
Ethical Hacking

18m



 Domains and Process  
Implementation under Ethical  
Hacking

54m



 Ethical Hacking in Network



## Coding Challenges Details:

1. Write a C Program to implement various operations of Singly Linked List Stack.

```
#include <stdlib.h>
```

```
struct node
```

```
{
```

```
    int info;
```

```
    struct node *ptr;
```

```
}*top,*top1,*temp;
```

```
int topelement();
```

```
void push(int data);
```

```
void pop();
```

```
void empty();
```

```
void display();
```

```
void destroy();
```

```
void stack_count();
```

```
void create();
```

```
int count = 0;
```

```
void main()
```

```
{
```

```
    int no, ch, e;
```

```
printf("\n 1 - Push");  
printf("\n 2 - Pop");  
printf("\n 3 - Top");  
printf("\n 4 - Empty");  
printf("\n 5 - Exit");  
printf("\n 6 - Dipslay");  
printf("\n 7 - Stack Count");  
printf("\n 8 - Destroy stack");
```

```
create();
```

```
while (1)
```

```
{
```

```
    printf("\n Enter choice : ");
```

```
    scanf("%d", &ch);
```

```
    switch (ch)
```

```
    {
```

```
        case 1:
```

```
            printf("Enter data : ");
```

```
            scanf("%d", &no);
```

```
            push(no);
```

```
            break;
```

```
        case 2:
```

```
            pop();
```

```
        break;
case 3:
    if (top == NULL)
        printf("No elements in stack");
    else
    {
        e = topelement();
        printf("\n Top element : %d", e);
    }
    break;
case 4:
    empty();
    break;
case 5:
    exit(0);
case 6:
    display();
    break;
case 7:
    stack_count();
    break;
case 8:
    destroy();
    break;
default :
    printf(" Wrong choice, Please enter correct choice ");
```

```
        break;
    }
}
}
```

/\* Create empty stack \*/

void create()

```
{
    top = NULL;
}
```

/\* Count stack elements \*/

void stack\_count()

```
{
    printf("\n No. of elements in stack : %d", count);
}
```

/\* Push data into stack \*/

void push(int data)

```
{
    if (top == NULL)
    {
        top =(struct node *)malloc(1*sizeof(struct node));
        top->ptr = NULL;
        top->info = data;
    }
}
```



```
else
{
    temp =(struct node *)malloc(1*sizeof(struct node));
    temp->ptr = top;
    temp->info = data;
    top = temp;
}
count++;
}
```

```
void display()
{
    top1 = top;

    if (top1 == NULL)
    {
        printf("Stack is empty");
        return;
    }

    while (top1 != NULL)
    {
        printf("%d ", top1->info);
        top1 = top1->ptr;
    }
}
```

```

void pop()
{
    top1 = top;

    if (top1 == NULL)
    {
        printf("\n Error : Trying to pop from empty stack");
        return;
    }
    else
        top1 = top1->ptr;
    printf("\n Popped value : %d", top->info);
    free(top);
    top = top1;
    count--;
}

int topelement()
{
    return(top->info);
}

void empty()
{
    if (top == NULL)
        printf("\n Stack is empty");
    else

```

```
        printf("\n Stack is not empty with %d elements", count);
    }
    void destroy()
    {
        top1 = top;

        while (top1 != NULL)
        {
            top1 = top->ptr;
            free(top);
            top = top1;
            top1 = top1->ptr;
        }
        free(top1);
        top = NULL;

        printf("\n All stack elements destroyed");

        count = 0;
    }
}
```

**Output:-**

```
1 - Push
2 - Pop
3 - Top
4 - Empty
5 - Exit
6 - Display
7 - Stack Count
8 - Destroy stack
Enter choice : 1
Enter data : 23

Enter choice : 1
Enter data : 45

Enter choice : 1
Enter data : 78

Enter choice : 6
78 45 23
Enter choice : 2

Popped value : 78
Enter choice : 2

Popped value : 45
```

```
Enter choice : 6
78 45 23
Enter choice : 2

Popped value : 78
Enter choice : 2

Popped value : 45
Enter choice : 2

Popped value : 23
Enter choice : 2

Error : Trying to pop from empty stack
Enter choice : 7

No. of elements in stack : 0
Enter choice : 8

All stack elements destroyed
Enter choice : 5

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

## 2. Write a Java Program to separate the Individual Characters from a String

### Description:

In computer science, collection of characters including spaces is called as string. To separate an individual character from the string, individual characters are accessed through its index.

Algorithm

STEP 1: START

STEP 2: DEFINE String string = "characters "

STEP 3: PRINT "Individual characters from given string: "

STEP 4: SET i=0. REPEAT STEP 5 to STEP 6 UNTIL i<string.length()

STEP 5: PRINT string.charAt(i)

STEP 6: i=i+1

STEP 7: END

```
public class Main
```

```
{
```

```
    public static void main(String[] args) {
```

```
        String string = "characters";
```

```
        //Displays individual characters from given string
```

```
        System.out.println("Individual characters from given string:");
```

```
        //Iterate through the string and display individual character
```

```
        for(int i = 0; i < string.length(); i++){
```

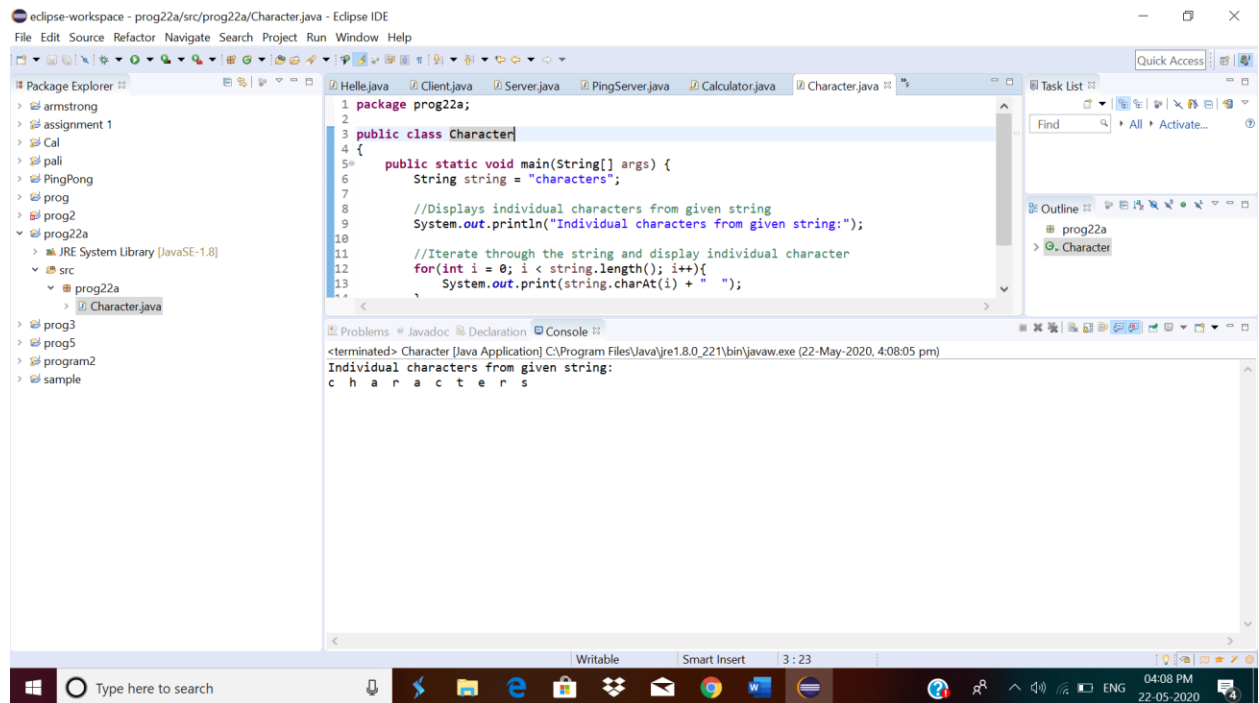
```
            System.out.print(string.charAt(i) + " ");
```

```
        }
```

```
    }
```

```
}
```

**Output:**



3. Write a Java Program to find the largest and smallest word in a string.

Description:

ALGORITHM

STEP 1: START

STEP 2: DEFINE String string="Hardships often prepare ordinary people for an extraordinary destiny"

STEP 3: DEFINE word = " ", small = " ", large = " ".

STEP 4: Make object of String[] words.

STEP 5: SET length =0

STEP 6: string = string + " "

STEP 7: SET i=0. REPEAT STEP 8 to 9 STEP UNTIL i

STEP 8: IF(string.charAt(i) != ' ') then

word =word + string.charAt(i)

else

word[length]=word

length =length + 1

word = " "

STEP 9: i=i+1

STEP 10: small = large =words[0]

STEP 11: SET k = 0. REPEAT STEP 12 to STEP 14 UNTIL k

STEP 12: IF(small.length() > words[k].length())

then

small = words[k]

```
STEP 13: IF(large.length() < words[k].length())
then
large = words[k]
STEP 14: k = k + 1
STEP 15: PRINT small
STEP 16: PRINT large
STEP 17: END
```

```
public class Main {
```

```
    public static void main(String[] args){
```

```
        String string = "Hardships often prepare ordinary people for an extraordinary
        destiny";
```

```
        String word = "", small = "", large="";
```

```
        String[] words = new String[100];
```

```
        int length = 0;
```

```
        string = string + " ";
```

```
        for(int i = 0; i < string.length(); i++){
```

```
            if(string.charAt(i) != ' '){
```

```
                word = word + string.charAt(i);
```

```
            }
```

```
            else{
```

```
                words[length] = word;
```

```
                length++;
```

```
                word = "";
```

```
            }
```

```
        }
```

```

small = large = words[0];

for(int k = 0; k < length; k++){

    if(small.length() > words[k].length())

        small = words[k];

    if(large.length() < words[k].length())

        large = words[k];

}

System.out.println("Smallest word: " + small);

System.out.println("Largest word: " + large);

} }

```

### Output:

