DAILY ONLINE ACTIVITIES SUMMARY

Date:	18/06/2020	Name:	Gautham Prabhu
Sem & Sec	8th Sem	USN:	4AL16CS035

Online Test Summary

Subject	System Model-ling and Simulation		
Max. Marks	60	Score	- -

Certification Course Summary

Course	JavaScript & jQuery - Certification Course for Beginners		
Certificate Provider	Udemy	Duration	3 hrs

Coding Challenges

Problem Statement: 1) Write a C Program to generate first N Magic Numbers.	
Status: Completed	
Uploaded the report in Github	Yes
If yes Repository name	Daily_report
Uploaded the report in slack	yes

Online Test Details:

- -

Certification Course Details:
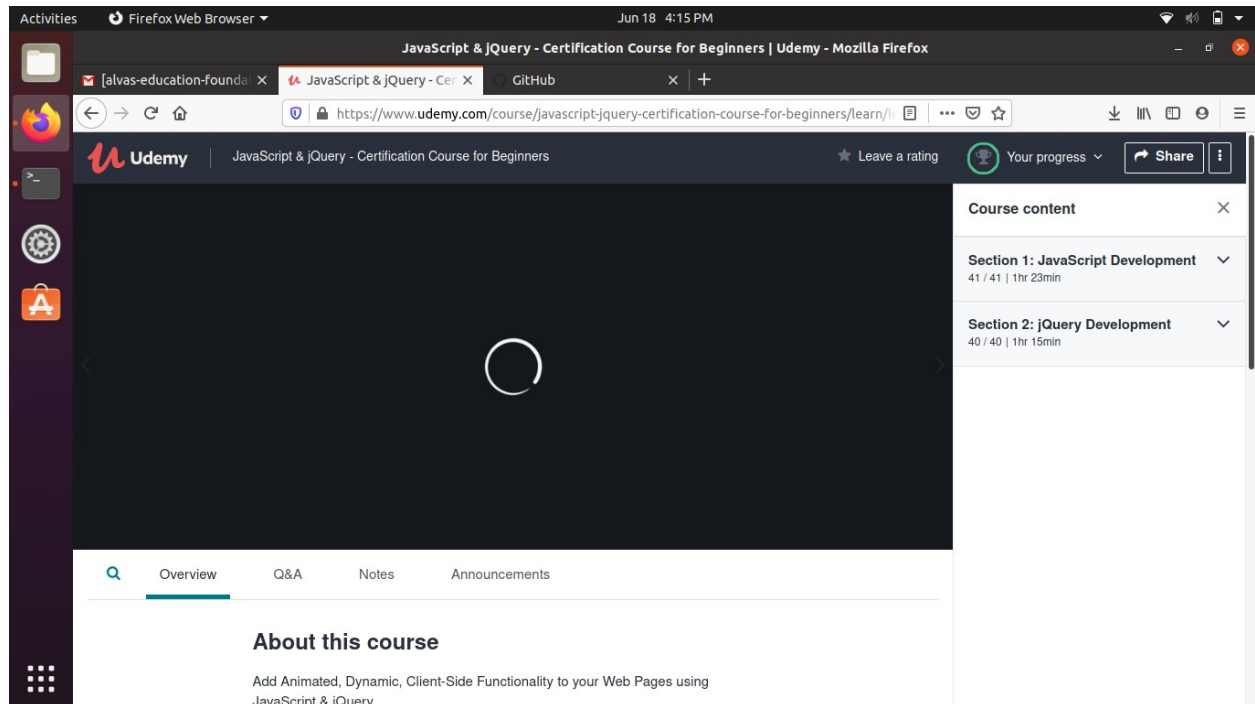
Coding Challenges Details:

Program 1:

```c
#include<stdio.h>

int nthMagicNo(int n)
{
    int pow = 1, answer = 0;
    while (n)
    {
        pow = pow*5;
        if (n & 1)
            answer += pow;
        n >>= 1;
    }
    return answer;
}

void main()
{
    int n, i;
    printf("Enter the value of N: ");
    scanf("%d", &n);
    for(i = 1; i <= n; i++)
    {
        printf("%d ", nthMagicNo(i));
```

```
    }
    printf("\n");
}
```

[alvas-education-foundation/final-year-2019-20-batch] Write a C Program to generate first N Magic Numbers. (#321) - gauthamprabhu245@gmail.com - Gmail - Mozilla ...

gautham_prabhu@gautham: ~/work/c

```
gautham_prabhu@gautham:~/work/c$ gcc magic_number.c -o magic_number
gautham_prabhu@gautham:~/work/c$ ./magic_number
Enter the value of N: 2
5 25
gautham_prabhu@gautham:~/work/c$ ./magic_number
Enter the value of N: 5
5 25 30 125 130
gautham_prabhu@gautham:~/work/c $ ./magic_number
Enter the value of N: 8
5 25 30 125 130 150 155 625
gautham_prabhu@gautham:~/work/c$
```

CzsMTgNRkcmFTn

1 of 3 ＜ ＞

-20-batch] Write a C Program to generate

7:36 AM (8 hours ago)

of 5 or sum of unique powers of 5 First few magic numbers are 5, 25, 30(5 + 25),

Meet

Start a meeting

Join a meeting

Chat

Gautham

Deekshith Tr

Input: n = 3
Output: 5 25 30

Input: n = 8
Output: 5 25 30 125 130 150 155 625

Hint:
The magic numbers can be represented as 001, 010, 011, 100, 101, 110 etc, where 001 is $0pow(5,3)$ + $0pow(5,2)$ + $1*pow(5,1)$. So basically, we need to add powers of 5 for each bit set in given integer n.
If n = 1; binary representation of 1 = 0001
Magic Number is: 0 * pow(5,4) + 0 * pow(5, 3) + 0 * pow(5, 2) + 1 * pow(5, 1) = 5