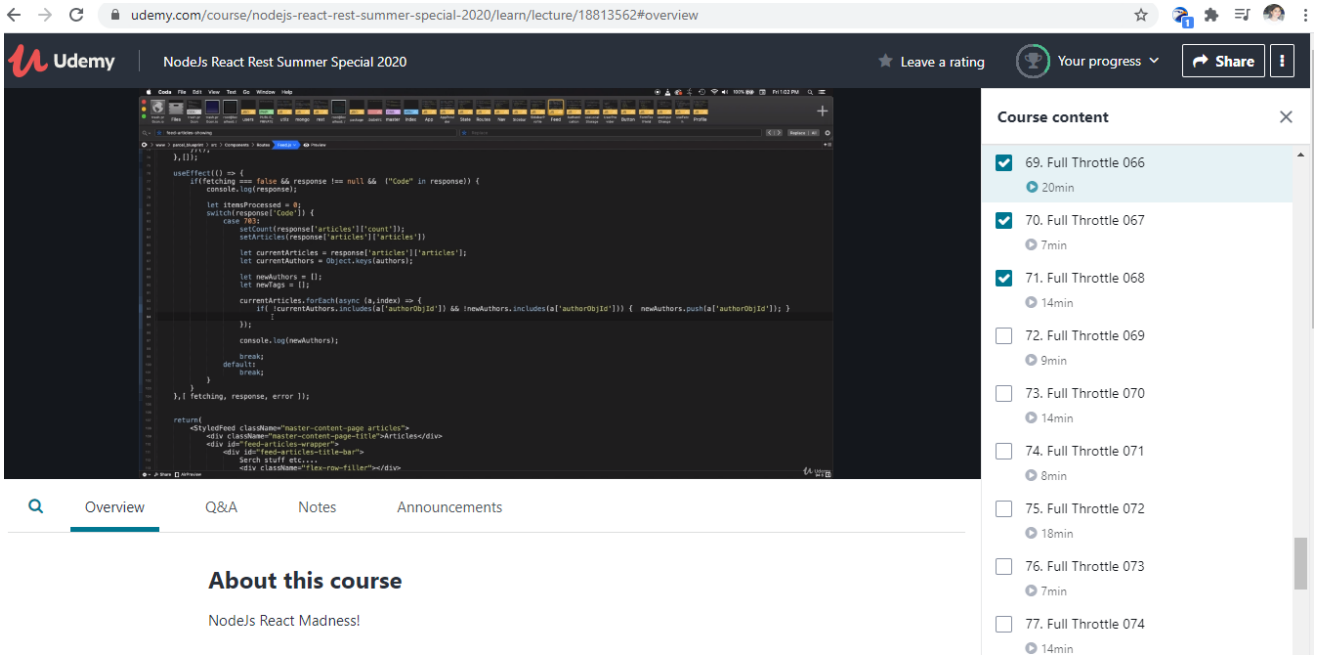
DAILY ONLINE ACTIVITIES SUMMARY

Date:	**27/07/2020**	**Name:**	**Divya C H**
Sem & Sec	**8th Sem**	**USN:**	**4AL16CS033**
Online Test Summary			
Subject	- -		
Max. Marks	- -	**Score**	- -
Certification Course Summary			
Course	**Nodejs React Rest Summer Special 2020**		
Certificate Provider	**Udemy**	**Duration**	**26 hrs**
Coding Challenges			
Problem Statement: Write a C program to find possible number of decoding of a given digits sequence			
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 challenge:

Program 1:

```
#include <stdio.h>

#include <string.h>

int count_decoding_digits(char *digits, int n)

{

int count[n+1]; // An array to store results of subproblems

count[0] = 1;

count[1] = 1;

for (int i = 2; i <= n; i++)
```

```
{
count[i] = 0;
//If the last digit != 0, then last digit must add to the number of words
if (digits[i-1] > '0')
count[i] = count[i-1];
//If second last digit is smaller than 2 and last digit is smaller than 7, then last
two digits form a valid character
if (digits[i-2] == '1' || (digits[i-2] == '2' && digits[i-1] < '7'))
count[i] += count[i-2];
}
return count[n];
}
int main()
{
char digits[15];
printf("\nEnter the digit sequence : ");

gets(digits);

int n = strlen(digits);
printf("\nPossible count of decoding of the sequence : %d\n",
count_decoding_digits(digits, n));

return 0;

}
```