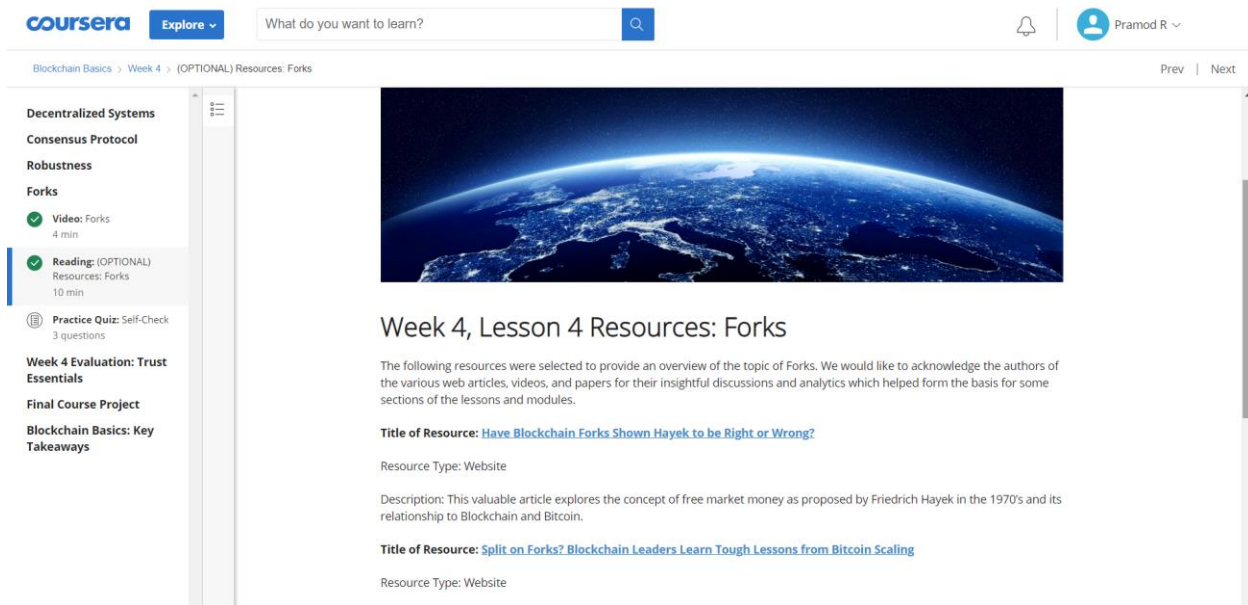


## DAILY ONLINE ACTIVITIES SUMMARY

Date:	09/06/2020	Name:	Pramod R
Sem & Sec	4 <sup>th</sup> sem B section	USN:	4AL18CS059
<b>Online Test Summary</b>			
Subject	-		
Max. Marks	-	Score	-
<b>Certification Course Summary</b>			
Course	Blockchain Basics		
Certificate Provider	Coursera	Duration	4 weeks
<b>Coding Challenges</b>			
<b>Problem Statement:</b> Write a C Program to Generate All the Set Partitions of n Numbers Beginning from 1 and so on			
<b>Status:</b> Completed			
Uploaded the report in Github		YES	
If yes Repository name		<a href="https://github.com/alvas-education-foundation/Pramod_R">https://github.com/alvas-education-foundation/Pramod_R</a>	
Uploaded the report in slack		YES	

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



The screenshot displays the Coursera interface for the 'Blockchain Basics' course. The top navigation bar includes the Coursera logo, an 'Explore' button, a search bar with the placeholder 'What do you want to learn?', and a user profile icon for 'Pramod R'. The breadcrumb trail indicates the current location: 'Blockchain Basics > Week 4 > (OPTIONAL) Resources: Forks'. The left sidebar lists course sections: 'Decentralized Systems', 'Consensus Protocol', 'Robustness', 'Forks' (which is highlighted), 'Practice Quiz: Self-Check', 'Week 4 Evaluation: Trust Essentials', 'Final Course Project', and 'Blockchain Basics: Key Takeaways'. The main content area features a large image of Earth from space, followed by the heading 'Week 4, Lesson 4 Resources: Forks'. Below this, a paragraph explains that the resources were selected to provide an overview of Forks and acknowledge the authors. Two resource entries are listed: 1) 'Have Blockchain Forks Shown Hayek to be Right or Wrong?' with a resource type of 'Website'; 2) 'Split on Forks? Blockchain Leaders Learn Tough Lessons from Bitcoin Scaling' with a resource type of 'Website'.

The course I have chosen during the lockdown period is Blockchain basics. Since I had previously knew few topics about bitcoin I am continuing this course. Since Blockchain is gaining a lot interest in the IT Sector I have preferred to choose this course.

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

```
27 122
28 23
29 Ans:
30 */
31
32 #include <stdio.h>
33 #include <stdlib.h>
34 typedef struct {
35     int first;
36     int n;
37     int level;
38 } Call;
39
40
41 void print(int n, int * a) {
42     int i ;
43     for (i = 0; i <= n; i++) {
44         printf("%d", a[i]);
45     }
46     printf("\n");
47 }
48
49
50 void IntegerPartition(int n, int * a){
51     int first;
52     int i;
53     int top = 0;
54     int level = 0;
55     Call * stack = (Call * ) malloc (sizeof(Call) * 1000);
56     stack[0].first = -1;
57     stack[0].n = n;
58     stack[0].level = level;
59     while (top >= 0){
60         first = stack[top].first;
61         n = stack[top].n;
62         level = stack[top].level;
63         if (n >= 1) {
64             if (first == - 1) {
```

### The question I took to code is:

This algorithm partitions an integer into numbers which sum up to form the original number. It generates partitions of a set of numbers for a given range.

### Sample Input

Enter a number N to generate all set partition from 1 to N: 5

Integer partition for 1 is:

1

Integer partition for 2 is:

2

11

Integer partition for 3 is:

3

12

111

Integer partition for 4 is:

4

13

112

1111

22

Integer partition for 5 is:

5

14

113

1112

11111

122

23

**Solution:** The above snapshot is the code which I have uploaded in my Github repository