

## **DAILY ONLINE ACTIVITIES SUMMARY**

<b>Date:</b>	<b>08/06/2020</b>	<b>Name:</b>	<b>Divyashree Naik</b>
<b>Sem &amp; Sec</b>	<b>8<sup>th</sup> sem A</b>	<b>USN:</b>	<b>4AL16CS034</b>
<b>Online Test Summary</b>			
<b>Subject</b>	<b>System Modeling and Simulation</b>		
<b>Max. Marks</b>	<b>60</b>	<b>Score</b>	<b>60</b>
<b>Certification Course Summary</b>			
<b>Course</b>	<b>Introduction to Apache Kafka</b>		
<b>Certificate Provider</b>	<b>Great Learning</b>	<b>Duration</b>	<b>1 hr</b>
<b>Coding Challenges</b>			
<b>Problem Statement: C Program to Generate All the Set Partitions of n Numbers</b>			
<b>Status: Complete</b>			
<b>Uploaded the report in Github</b>		<b>Yes</b>	
<b>If yes Repository name</b>		<b>Alvas-Report</b>	
<b>Uploaded the report in slack</b>		<b>Yes</b>	

Congratulations! Divyashree Naik,

You've cleared Round 1 and scored **60/60** in SMS\_VI. That's the maximum score one can reach in this assessment. View and share your achievement.

[View Achievement](#)

#### About The Assessment



SMS\_VI

Round 1 ends on: 08 Jun, 2020 (1 Hour)

Warm Regards,  
TechGig Team

#### Online certification:



## Coding Challenge:

The screenshot shows the Code::Blocks IDE with a C++ project named 'June8Prg.c'. The code defines two functions: `printArray` and `partition`. The `partition` function uses a `while` loop to repeatedly call `printArray` and update the array `p` to generate the next row of Pascal's triangle. The output window shows the execution results for an input of 4, displaying the first four rows of the triangle.

```
#include<stdio.h>

void printArray(int p[], int n)
{
    for (int i = 0; i < n; i++)
        printf("%d ", p[i]);
    printf("\n");
}

void partition(int n)
{
    int p[n], true=1;
    int k = 0;
    p[k] = n;

    while (true)
    {
        printArray(p, k+1);

        int rem_val = 0;
        while (k >= 0 && p[k] == 1)
            rem_val = p[k];
        p[k] = rem_val;
        k++;
    }
}
```

Execution Output:

```
Enter the number: 4
4
3 1
2 2
2 1 1
1 1 1 1
Process returned 0 (0x0)   execution time : 1.790 s
Press any key to continue.
```

Build Log:

```
==== Build file: "no target" in "no project" (compiler: unknown) ====
==== Build finished: 0 error(s), 0 warning(s) (0 minute(s), 1 second(s)) ====
```