DAILY ONLINE ACTIVITIES SUMMARY

Date:	**08/06/2020**	**Name:**	**Vishwas Acharya**
Sem & Sec	**8th- A**	**USN:**	**4AL16CS002**

Online Test Summary

Subject	**SMS**		
Max. Marks	**60**	**Score**	**60**

Certification Course Summary

Course	**The Data Science Course 2020:Complete Data Science Bootcamp**		
Certificate Provider	**Udemy**	**Duration**	**29hours**

Coding Challenges

Problem Statement: **Generate all unique partitions of an integer**	
Status: Executed	
Uploaded the report in Github	**Yes**
If yes Repository name	**vishwas_acharya**
Uploaded the report in slack	**Yes**

Online Test Details:

TECHGIG

Congratulations! Vishwas Acharya,

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

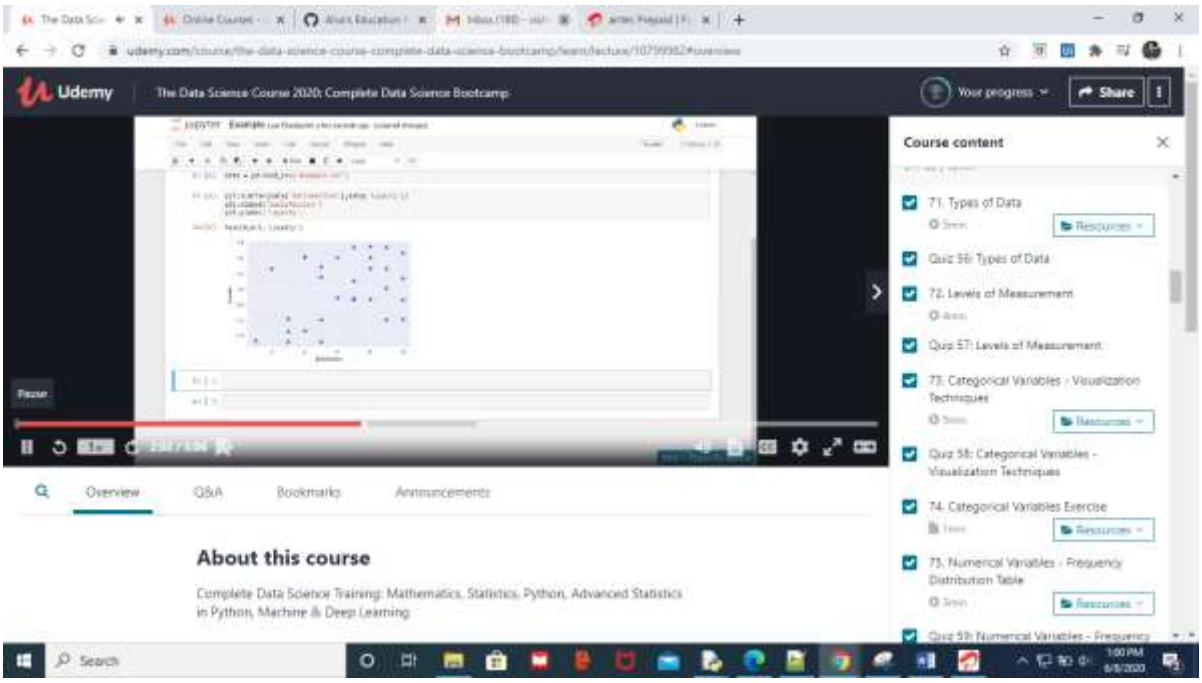
About The Assessment

SMS_VI

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

Warm Regards,
TechGig Team

Certification Course Details:



Coding Challenges Details:

program25.py - C:/Users/lenovo/Desktop/vishwas_acharya/coding_solutions/program25.py (3.8.1)

File Edit Format Run Options Window Help

```
def printArray(p, n):
    for i in range(0, n):
        print(p[i], end = " ")
    print()

def printAllUniqueParts(n):
    p = [0] * n      # An array to store a partition
    k = 0          # Index of last element in a partition
    p[k] = n     # Initialize first partition
                 # as number itself
    while True:
            printArray(p, k + 1)
            rem_val = 0
            while k >= 0 and p[k] == 1:
                rem_val += p[k]
                k -= 1
            if k < 0:
                print()
                return
            p[k] -= 1
            rem_val += 1

            while rem_val > p[k]:
                p[k + 1] = p[k]
                rem_val = rem_val - p[k]
                k += 1

            p[k + 1] = rem_val
            k += 1

print('All Unique Partitions of 2')
printAllUniqueParts(2)

print('All Unique Partitions of 3')
printAllUniqueParts(3)

print('All Unique Partitions of 4')
printAllUniqueParts(4)
```

Python 3.8.1 Shell

File Edit Shell Debug Options Window Help

```
Python 3.8.1 (tags/v3.8.1:1b293b6, Dec 18 2019
, 23:11:46) [MSC v.1916 64 bit (AMD64)] on win
32
Type "help", "copyright", "credits" or "licens
e()" for more information.
>>>
= RESTART: C:/Users/lenovo/Desktop/vishwas_ach
arya/coding_solutions/program25.py
All Unique Partitions of 2
2
1 1

All Unique Partitions of 3
3
2 1
1 1 1

All Unique Partitions of 4
4
3 1
2 2
2 1 1
1 1 1 1

>>>
```

Ln: 21 Col: 4