

DAILY ONLINE ACTIVITIES SUMMARY

Date:	08/06/2020	Name:	Vishwas Acharya
Sem & Sec	8 th - 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.

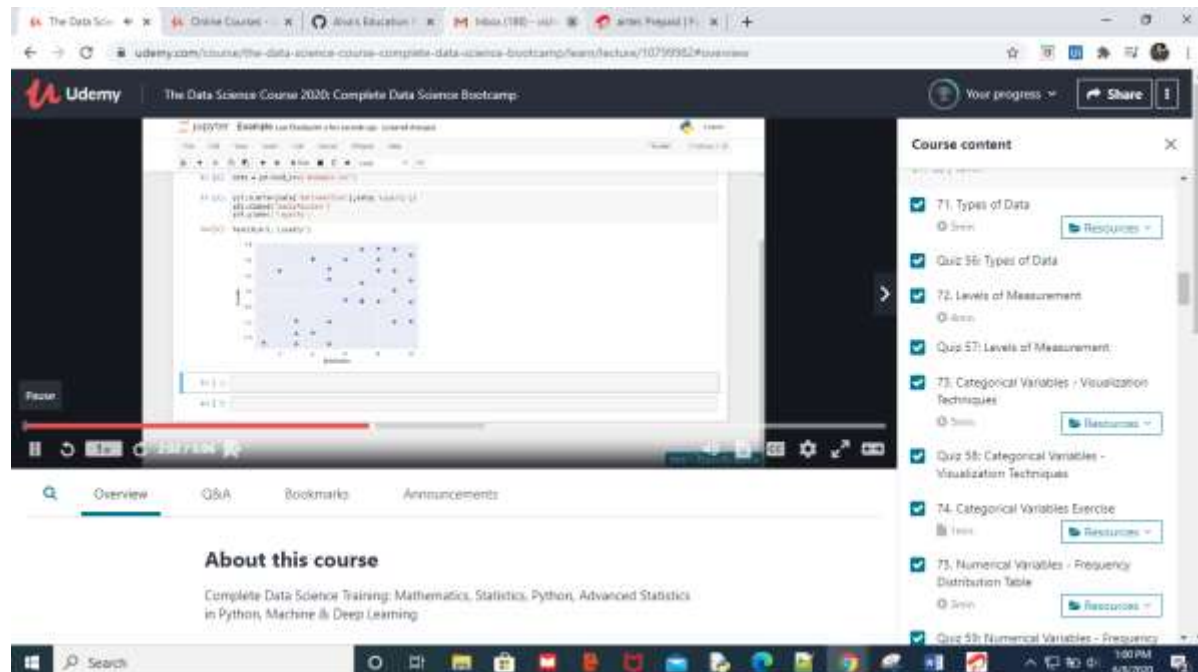
View Achievement

About The Assessment

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

Warm Regards,
TechGig Team

Certification Course Details:



The screenshot shows a Udemy course page for "The Data Science Course 2020: Complete Data Science Bootcamp". The course is by "Udacity" and is part of the "Udacity" series. The course content is listed on the right, including topics like "Types of Data", "Levels of Measurement", "Categorical Variables - Visualization Techniques", and "Numerical Variables - Frequency Distribution Table". The course is currently paused at 1:00 PM on 6/6/2020. The course description mentions "Complete Data Science Training: Mathematics, Statistics, Python, Advanced Statistics in Python, Machine & Deep Learning".

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