DAILY ONLINE ACTIVITIES SUMMARY

Date:	**03-07-2020**	**Name:**	**Chetana H**
Sem & Sec	**6thA**	**USN:**	**4AL17CS021**
Online Test Summary			
Subject			
Max. Marks	**-**	**Score**	**-**
Pre-placement Training Summary			
Topic			
Faculty		**Duration**	
Coding Challenges			
Problem Statement:1programs			
Status:Solved			
Uploaded the report in GitHub	**yes**		
If yes Repository name	https://github.com/chetana-H/online-course2		
Uploaded the report in slack	**yes**		

ONLINE CODING

Python Program to Create a Class and Get All Possible Subsets from a Set of Distinct Integerss

```
class Subsets:
    def f1(self, s1):
        return self.f2([], sorted(s1))
    def f2(self, curr, s1):
        if s1:
            return self.f2(curr, s1[1:]) + self.f2(curr + [s1[0]], s1[1:])
        return [curr]
a=[]
n=int(input("Enter number of elements of list: "))
for i in range(0,n):
    b=int(input("Enter element: "))
a.append(b)
print("Subsets: ")
print(Subsets().f1(a))
```

main.py

```python
class Subsets:
    def f1(self, s1):
        return self.f2([], sorted(s1))

    def f2(self, curr, s1):
        if s1:
            return self.f2(curr, s1[1:]) + self.f2(curr + [s1[0]], s1[1:])
        return [curr]
a=[]
n=int(input("Enter number of elements of list: "))
for i in range(0,n):
    b=int(input("Enter element: "))
    a.append(b)
print("Subsets: ")
print(Subsets().f1(a))
```

input

```
Enter number of elements of list: 3
Enter element: 6
Enter element: 7
Enter element: 8
Subsets:
[[], [8], [7], [7, 8], [6], [6, 8], [6, 7], [6, 7, 8]]
```