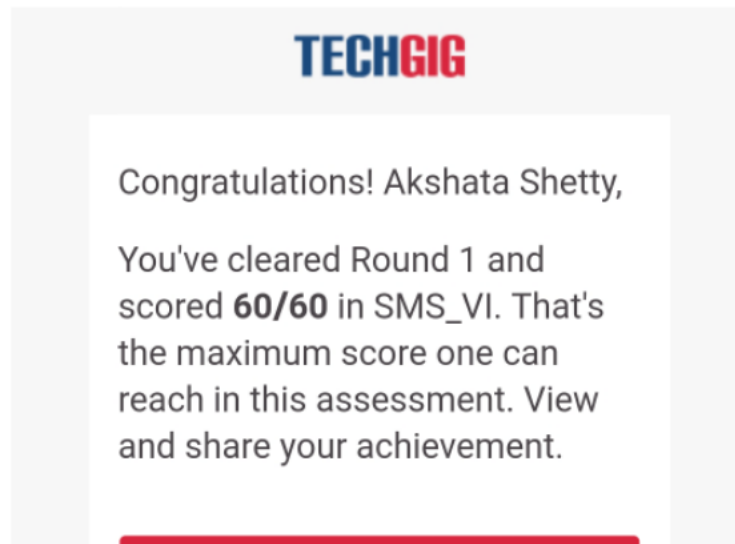


DAILY ONLINE ACTIVITIES SUMMARY

Date:	08- 06- 2020	Name:	Akshata Shetty
Sem & Sec	8 th sem B sec	USN:	4AL16CS092
Online Test Summary			
Subject	SMS		
Max. Marks	60	Score	60
Certification Course Summary			
Course	Aws deep racer		
Certificate Provider	Aws	Duration	90mins
Coding Challenges			
Problem Statement: generate all unique partition of integer			
Status: completed			
Uploaded the report in Github		yes	
If yes Repository name		Akshata	
Uploaded the report in slack		yes	

online Test Details: (Attach the snapshot and briefly write the report for the same)



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



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

Coding was given n it was uploaded for github and slack

Generate all unique partitions of an integer

```
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)
```