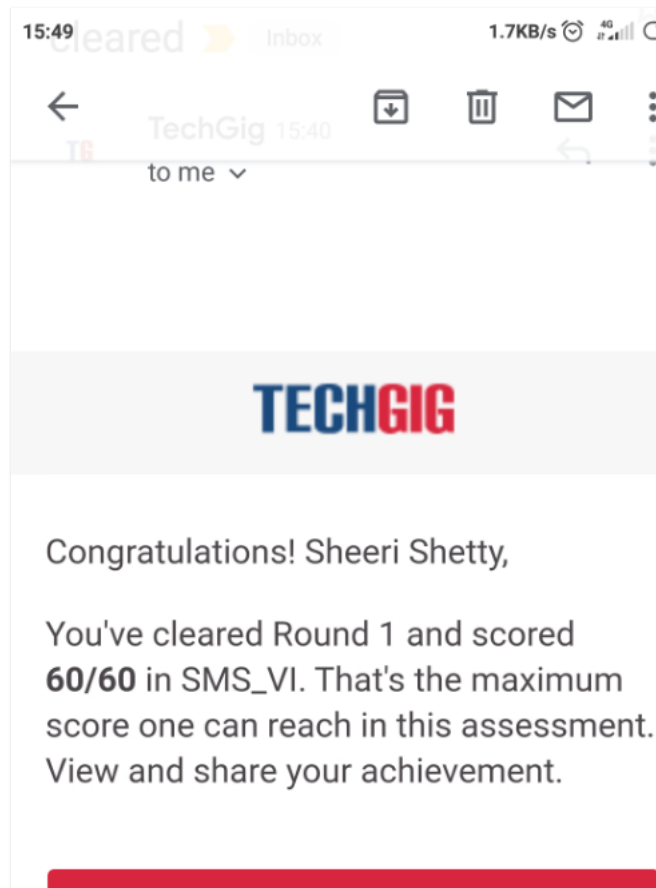


## DAILY ONLINE ACTIVITIES SUMMARY

<b>Date:</b>	08-06-2020	<b>Name:</b>	Sheeri Shetty
<b>Sem &amp; Sec</b>	8 <sup>th</sup> sem B sec	<b>USN:</b>	4AL16CS095
<b>Online Test Summary</b>			
<b>Subject</b>	SMS		
<b>Max. Marks</b>	60	<b>Score</b>	60
<b>Certification Course Summary</b>			
<b>Course</b>	Reinforcement Learning		
<b>Certificate Provider</b>	Aws	<b>Duration</b>	10-12.30
<b>Coding Challenges</b>			
<b>Problem Statement:</b> generate all unique partition of integer			
<b>Status:</b> completed			
<b>Uploaded the report in Github</b>		yes	
<b>If yes Repository name</b>		Sheeri-Shetty-	
<b>Uploaded the report in slack</b>		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)



# AWS DeepRacer: Driven by Reinforcement Learning



Less



Lesson 4 of 6

## Tuning up for a top finish

Start your engines



Test drive



Reinforcement learning



Tuning up for a top finish



Rev your engines



## Overview

This chapter optimizes your performance...

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)
```