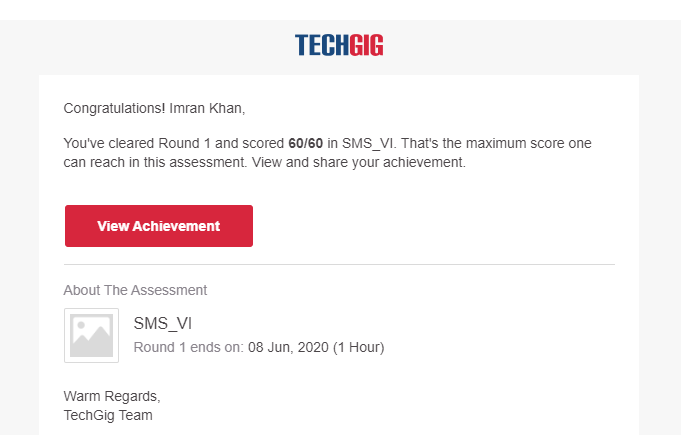
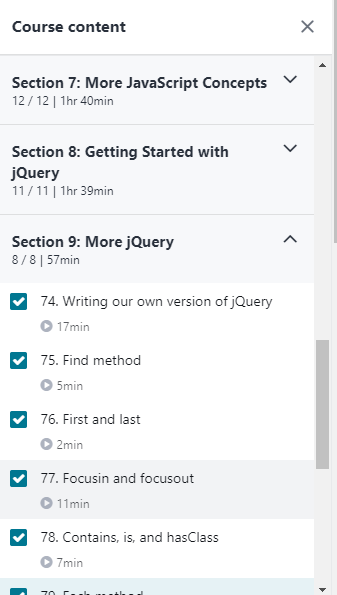
**DAILY ONLINE ACTIVITIES SUMMARY**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Date:** | **8/06/2020** | | | | **Name:** | **Imran Khan** | |
| **Sem & Sec** | **8th A** | | | | **USN:** | **4AL16CS040** | |
| **Online Test Summary** | | | | | | | |
| **Subject** | | **SMS** | | | | | |
| **Max. Marks** | | **60** | | **Score** | | **60** | |
| **Certification Course Summary** | | | | | | | |
| **Course** | **Front-end devolopment** | | | | | | |
| **Certificate Provider** | | | **udemy** | **Duration** | | | **9 HOURS** |
| **Coding Challenges** | | | | | | | |
| Problem Statement:  C Program to Generate All the Set Partitions of n Numbers Beginning from 1 and so on.. | | | | | | | |
| **Status: Solved** | | | | | | | |
| **Uploaded the report in Github** | | | | **yes** | | | |
| **If yes Repository name** | | | | **Imran040** | | | |
| **Uploaded the report in slack** | | | | **yes** | | | |

Online test details:



**Certification Course Details**:



**Coding Challenges Details**:

**program1:**

|  |  |  |  |
| --- | --- | --- | --- |
|  | | | |
|  | |
| #include<stdio.h> | |
|  | |  |
|  | | void printArray(int p[], int n) |
|  | | { |
|  | | for (int i = 0; i < n; i++) |
|  | | printf("%d ",p[i]); |
|  | | printf("\n"); |
|  | | } |
|  | |  |
|  | | void partition(int n) |
|  | | { |
|  | | int p[n], true=1; |
|  | | int k = 0; |
|  | | p[k] = n; |
|  | |  |
|  | | while (true) |
|  | | { |
|  | | printArray(p, k+1); |
|  | |  |
|  | | int rem\_val = 0; |
|  | | while (k >= 0 && p[k] == 1) |
|  | | { |
|  | | rem\_val += p[k]; |
|  | | k--; |
|  | | } |
|  | |  |
|  | | if (k < 0) return; |
|  | |  |
|  | | p[k]--; |
|  | | rem\_val++; |
|  | |  |
|  | | while (rem\_val > p[k]) |
|  | | { |
|  | | p[k+1] = p[k]; |
|  | | rem\_val = rem\_val - p[k]; |
|  | | k++; |
|  | | } |
|  | |  |
|  | | p[k+1] = rem\_val; |
|  | | k++; |
|  | | } |
|  | | } |
|  | |  |
|  | | int main() |
|  | | { |
|  | | int n; |
|  | | printf("Enter the number: "); |
|  | | scanf("%d",&n); |
|  | | partition(n); |
|  | |  |
|  | | return 0; |
|  | | } |