**DAILY ONLINE ACTIVITIES SUMMARY**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Date:** | **21-06-2020** | | | | | **Name:** | **P Vighnesh Pejathaya** | |
| **Sem & Sec** | **8 sem , A sec** | | | | | **USN:** | **4al16cs060** | |
| **Online Test Summary** | | | | | | | | |
| **Subject** | | **NA** | | | | | | |
| **Max. Marks** | | **--** | | **Score** | | | **--** | |
| **Certification Course Summary** | | | | | | | | |
| **Course** | **Cloud Computing** | | | | | | | |
| **Certificate Provider** | | | **PGCE** | | **Duration** | | | **120 min** |
| **Coding Challenges** | | | | | | | | |
| **Problem Statement: R program to find given number is prime or not.** | | | | | | | | |
| **Status: Completed** | | | | | | | | |
| **Uploaded the report in Github** | | | | | **yes** | | | |
| **If yes Repository name** | | | | | **Alvas-education-foundation/p\_vighnesh** | | | |
| **Uploaded the report in slack** | | | | | **yes** | | | |

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

Not Conducted.

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)

A positive integer greater than 1 which has no other factors except 1 and the number itself is called a prime number.

Numbers 2, 3, 5, 7, 11, 13 etc. are prime numbers as they do not have any other factors.

But, 6 is not prime (it is composite) since, 2 x 3 = 6. Here, we take an integer from the user and check whether it is prime or not. Numbers less than or equal to 1 are not prime numbers.

Hence, we only proceed if the num is greater than 1. We check if num is exactly divisible by any number from 2 to num – 1. If we find a factor in that range, the number is not prime. Else the number is prime.We can decrease the range of numbers where we look for factors.

In the above program, our search range is from 2 to num – 1.We could have used the range, [2, num / 2] or [2, num \*\* 0.5]. The later range is based on the fact that a composite number must have a factor less than square root of that number. Otherwise the number is prime.