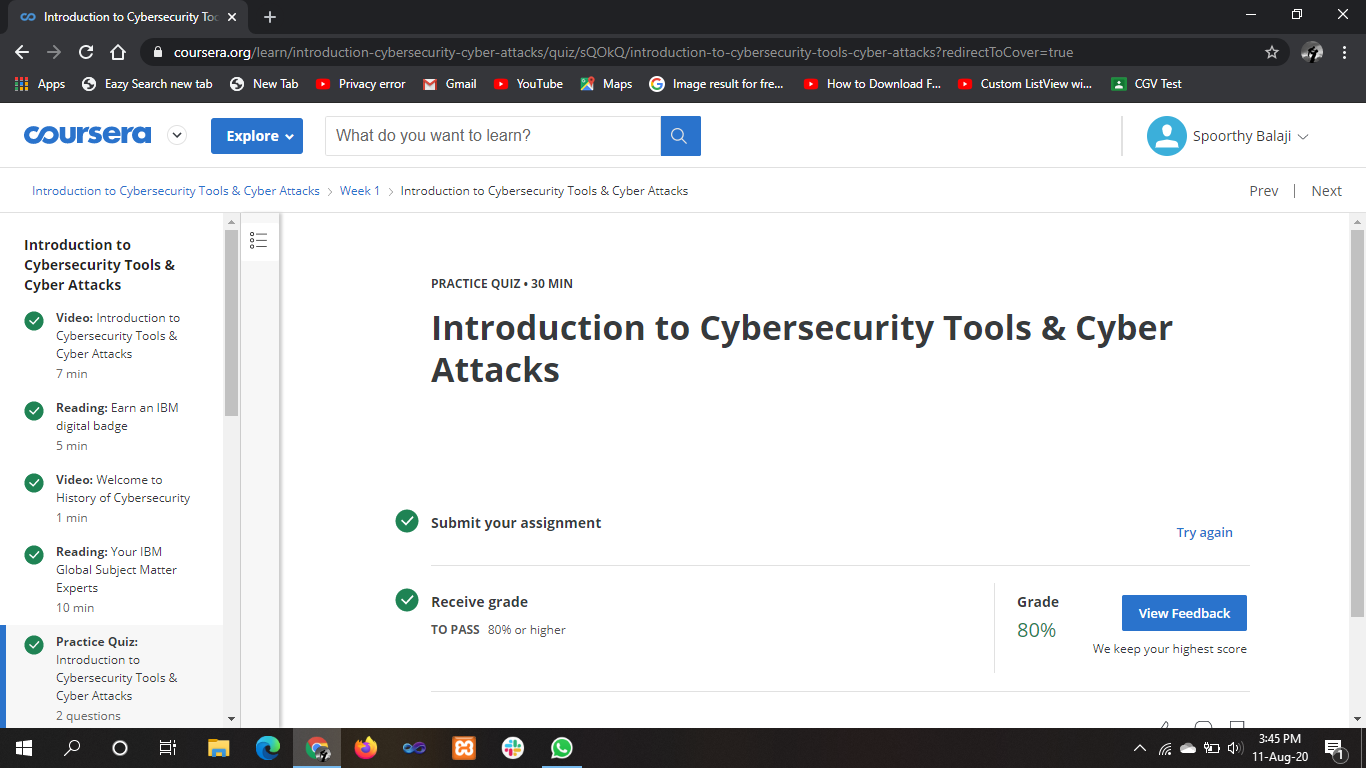
**DAILY ONLINE ACTIVITIES SUMMARY**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Date:** | **11/08/2020** | | | | | **Name:** | **Spoorthy Balaji** | |
| **Sem & Sec** | **6th & B** | | | | | **USN:** | **4al17cs098** | |
| **Online Test Summary** | | | | | | | | |
| **Subject** | | **-** | | | | | | |
| **Max. Marks** | | **-** | | **Score** | | | **-** | |
| **Certification Course Summary** | | | | | | | | |
| **Course** | Introduction to Cybersecurity Tools & Cyber Attacks | | | | | | | |
| **Certificate Provider** | | | **Coursera** | | **Duration** | | | **4Weeks** |
| **Coding Challenges** | | | | | | | | |
| **Problem Statement: Python Program for Number of solutions to Modular Equations** | | | | | | | | |
| **Status: Solved** | | | | | | | | |
| **Uploaded the report in Github** | | | | | **yes** | | | |
| **If yes Repository name** | | | | | <https://github.com/spoorthybalaji/Daily_Status> | | | |
| **Uploaded the report in slack** | | | | | **yes** | | | |

**ONLINE COURSE**

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**ONLINE** **CODING**

**Python Program for Number of solutions to Modular Equations**

**import math**

**def calculateDivisors (A, B):**

**N = A - B**

**noOfDivisors = 0**

**a = math.sqrt(N)**

**for i in range(1, int(a + 1)):**

**if ((N % i == 0)):**

**if (i > B):**

**noOfDivisors +=1**

**if ((N / i) != i and (N / i) > B):**

**noOfDivisors += 1;**

**return noOfDivisors**

**def numberOfPossibleWaysUtil (A, B):**

**if (A == B):**

**return -1**

**if (A < B):**

**return 0**

**noOfDivisors = 0**

**noOfDivisors = calculateDivisors;**

**return noOfDivisors**

**def numberOfPossibleWays(A, B):**

**noOfSolutions = numberOfPossibleWaysUtil(A, B)**

**if (noOfSolutions == -1):**

**print ("For A = " , A , " and B = " , B , ", X can take Infinitely many values", " greater than " , A)**

**else:**

**print ("For A = " , A , " and B = " , B , ", X can take " , noOfSolutions , " values")**

**A = 26**

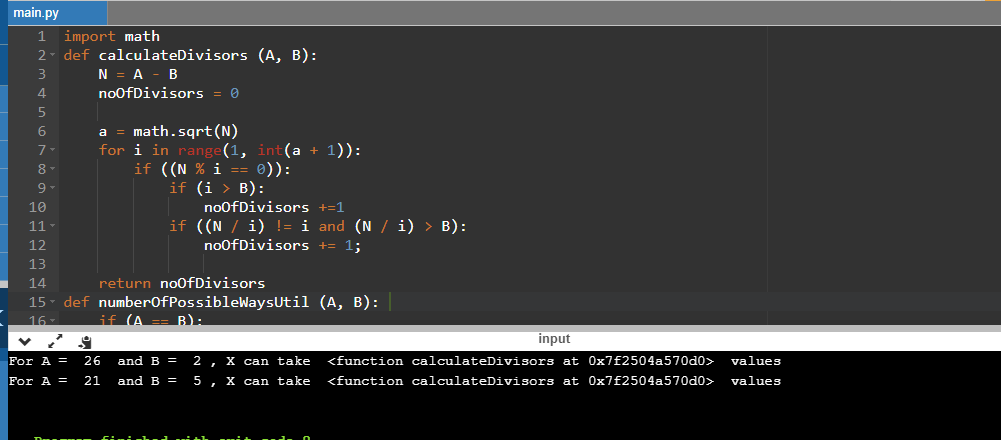
**B = 2**

**numberOfPossibleWays(A, B)**

**A = 21**

**B = 5**

**numberOfPossibleWays(A, B)**

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