

DAILY ONLINE ACTIVITIES SUMMARY

Date:	08-07-2020	Name:	Nanditha.R.Shetty
Sem & Sec	6th sem, 'A' sec	USN:	4AL17CS054
Online Test Summary			
Subject	-		
Max. Marks	-	Score	-
Certification Course Summary			
Course	Blockchain Basics		
Certificate Provider	Coursera	Duration	19hrs
Coding Challenges			
Problem Statement: 1 python program			
Status: executed			
Uploaded the report in GitHub		Yes	
If yes Repository name		https://github.com/nandithashetty/DAILY-STATUS	
Uploaded the report in slack		Yes	

Online Certification Course Details:

Today I started module 2 (Ethereum Blockchain)

- completed smart contract lesson and took quiz on this lesson.

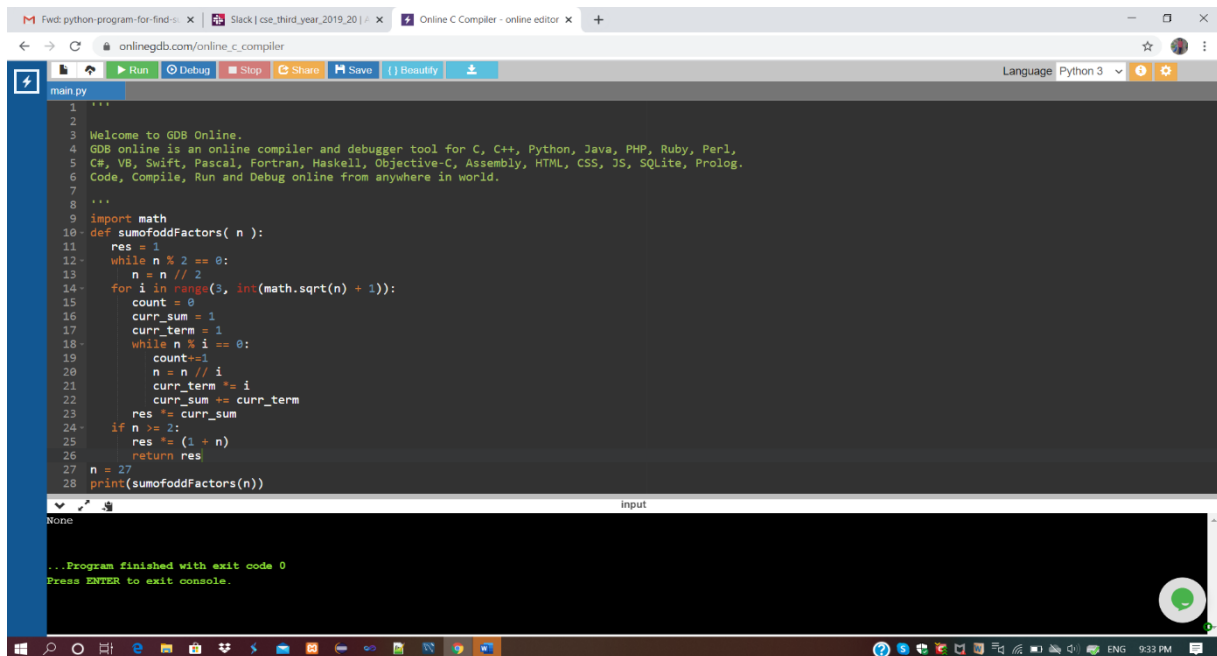
The screenshot shows the Coursera interface for the course 'Ethereum Blockchain: Smart Contracts'. The left sidebar lists the course content: 'Smart Contracts' (with a video, reading, and practice quiz), 'Ethereum Structure', 'Ethereum Operations', 'Incentive Model', and 'Week 2 Evaluation: Ethereum Blockchain'. The main content area displays a diagram titled 'Ethereum Blockchain: Smart Contracts' comparing the 'Bitcoin Stack' and the 'Ethereum Stack'. The Bitcoin Stack includes 'Wallet/Exchange Applications', 'Bitcoin Blockchain Protocol/Operations', and 'Peer-to-Peer Network and Operating Systems'. The Ethereum Stack includes 'Verticals: End User Applications', 'Application Framework: Smart Contracts', 'Ethereum Blockchain and Ethereum Virtual Machine', and 'Hardware'. The diagram is set against a dark blue background with a grid pattern.

The screenshot shows the 'Self-Check' quiz results page on Coursera. The top section displays a green checkmark and the text 'Congratulations! You passed!' with a 'Keep Learning' button and a 'GRADE 100%' indicator. Below this, the 'Self-Check' title is followed by 'TOTAL POINTS 2'. The first question is 'What allows for the execution of code in the Ethereum Blockchain, while enhancing the basic value transfer capability of the Bitcoin Blockchain?'. The options are 'Solidity', 'Ethereum Virtual Machine Proof-of-Work', 'Smart Contracts' (selected), and 'Byte-code'. A green checkmark and the text 'Correct' are shown, along with a detailed explanation: 'Correct! A Smart Contract is a piece of code deployed in the Blockchain node. Execution of a smart contract is initiated by a message embedded in a transaction'. The second question is partially visible: 'Solidity has data, functions or methods with modifiers, along with getter and setter functions. True or False?'. The page also shows a '1 / 1 point' indicator for the first question.

Coding Challenges Details:

Program 1

This is output of python program for finding sum of odd factors of a number.



The screenshot shows a web browser window with the URL `onlinegdb.com/online_c_compiler`. The page displays a Python program in a dark-themed editor. The program defines a function `sumofoddFactors(n)` that calculates the sum of odd factors of a given number `n`. The function uses a loop to iterate through odd numbers from 1 to \sqrt{n} , checking if they are factors. If they are, their sum is added to a running total. The program then calls this function with `n = 27` and prints the result. The output console shows the message `...Program finished with exit code 0` and `Press ENTER to exit console.`

```
1  ***
2
3  Welcome to GDB Online.
4  GDB online is an online compiler and debugger tool for C, C++, Python, Java, PHP, Ruby, Perl,
5  C#, VB, Swift, Pascal, Fortran, Haskell, Objective-C, Assembly, HTML, CSS, JS, SQLite, Prolog.
6  Code, Compile, Run and Debug online from anywhere in world.
7  ***
8
9  import math
10 def sumofoddFactors( n ):
11     res = 1
12     while n % 2 == 0:
13         n = n // 2
14     for i in range(3, int(math.sqrt(n) + 1)):
15         count = 0
16         curr_sum = 1
17         curr_term = 1
18         while n % i == 0:
19             count += 1
20             n = n // i
21             curr_term *= i
22             curr_sum += curr_term
23         res *= curr_sum
24     if n == 2:
25         res *= (1 + n)
26     return res
27 n = 27
28 print(sumofoddFactors(n))
```

Input: None

...Program finished with exit code 0
Press ENTER to exit console.

Refer GitHub for detailed Information:

<https://github.com/nandithashetty/DAILY-STATUS/tree/master/8-07-2020/ONLINE%20CODING>

This Report is also available in:

<https://github.com/nandithashetty/DAILY-STATUS/blob/master/8-07-2020/Daily-Report8-7-2020.pdf>