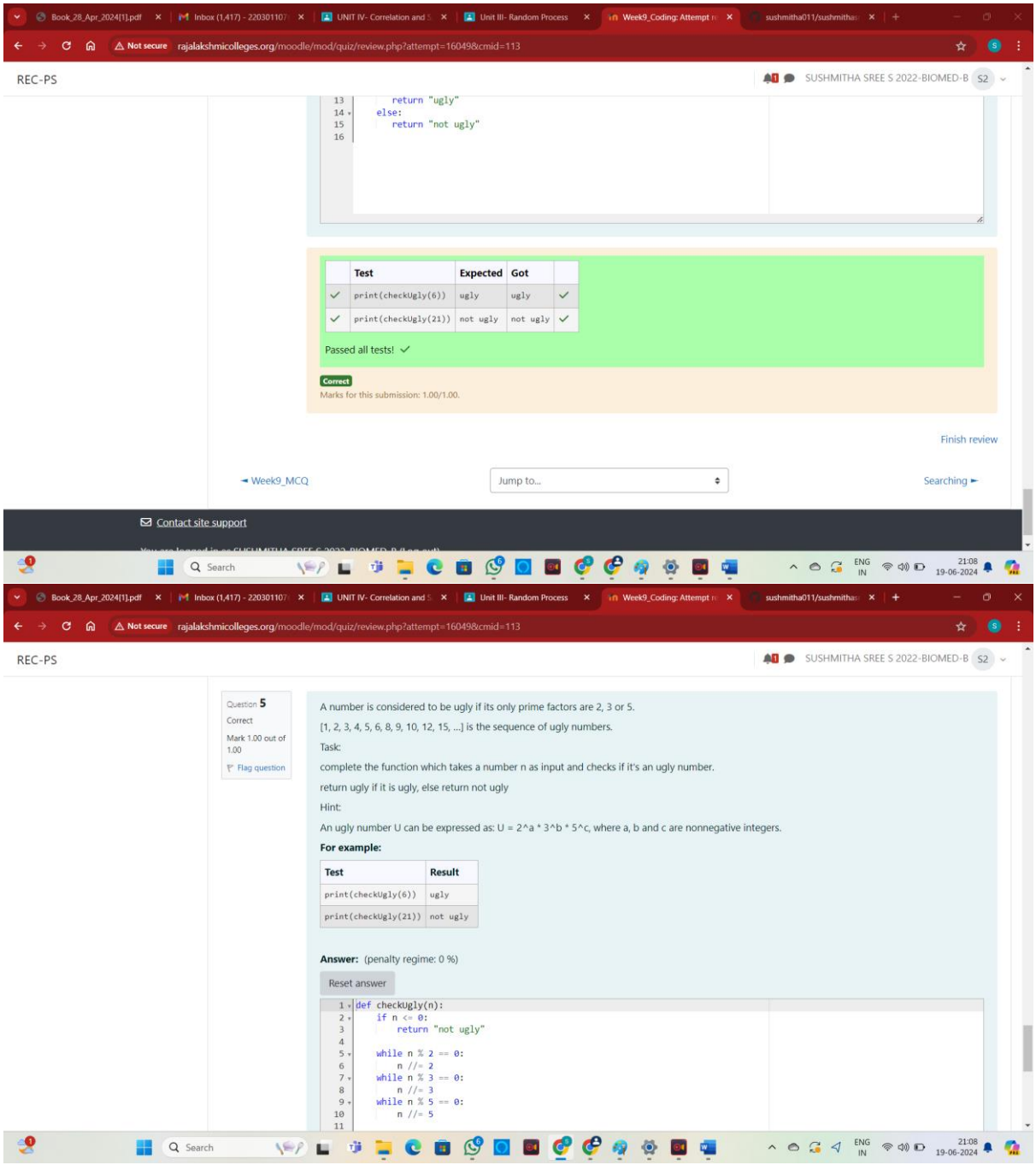
Book_28_Apr_2024[1].pdf
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UNIT IV- Correlation and
Unit III- Random Process
Week9_Coding: Attempt
sushmitha011/sushmitha
Not secure
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REC-PS
SUSHMITHA SREE S 2022-BIOMED-B
return "ugly"
else:
return "not ugly"
Test
Expected
Got
print(checkUgly(6))
ugly
ugly
print(checkUgly(21))
not ugly
not ugly
Passed all tests!
Correct
Marks for this submission: 1.00/1.00.
Finish review
Week9_MCQ
Jump to...
Searching
Contact site support
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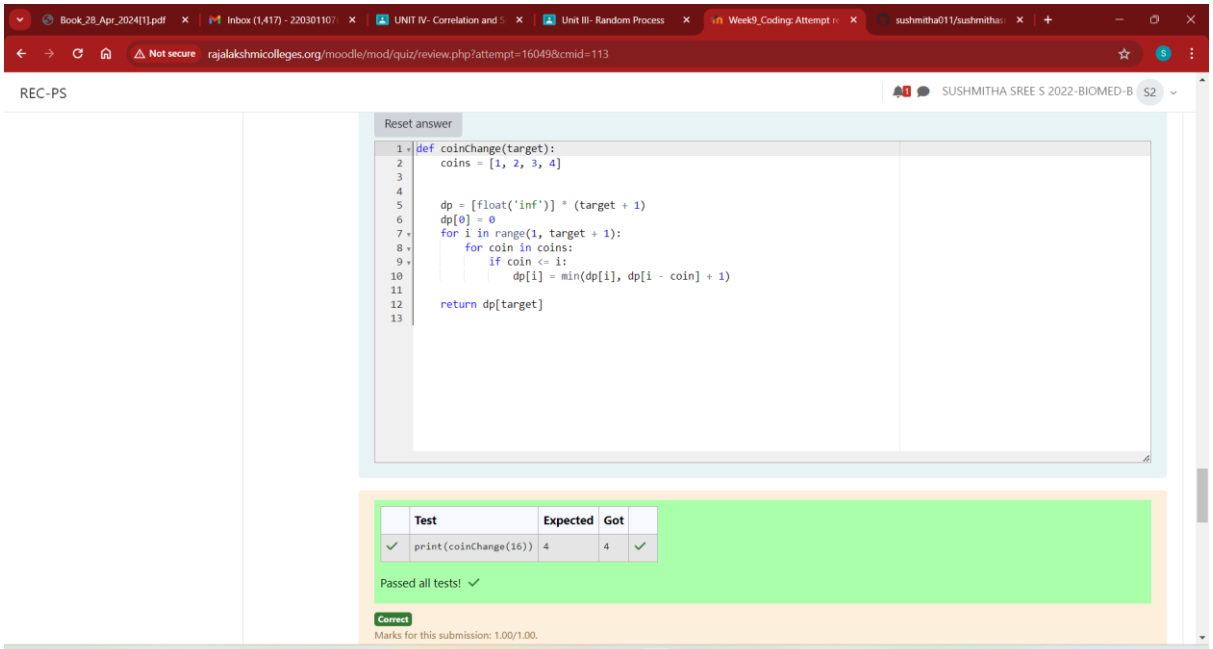
Question 5
Correct
Mark 1.00 out of 1.00
Flag question
A number is considered to be ugly if its only prime factors are 2, 3 or 5.
[1, 2, 3, 4, 5, 6, 8, 9, 10, 12, 15, ...] is the sequence of ugly numbers.
Task:
complete the function which takes a number n as input and checks if it's an ugly number.
return ugly if it is ugly, else return not ugly
Hint:
An ugly number U can be expressed as: U = 2^a * 3^b * 5^c, where a, b and c are nonnegative integers.
For example:
Test
Result
print(checkUgly(6))
ugly
print(checkUgly(21))
not ugly
Answer: (penalty regime: 0 %)
Reset answer
def checkUgly(n):
if n <= 0:
return "not ugly"
while n % 2 == 0:
n //= 2
while n % 3 == 0:
n //= 3
while n % 5 == 0:
n //= 5
Search
ENG
IN
21:08
19-06-2024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Unit III- Random Process
Week9_Coding: Attempt re
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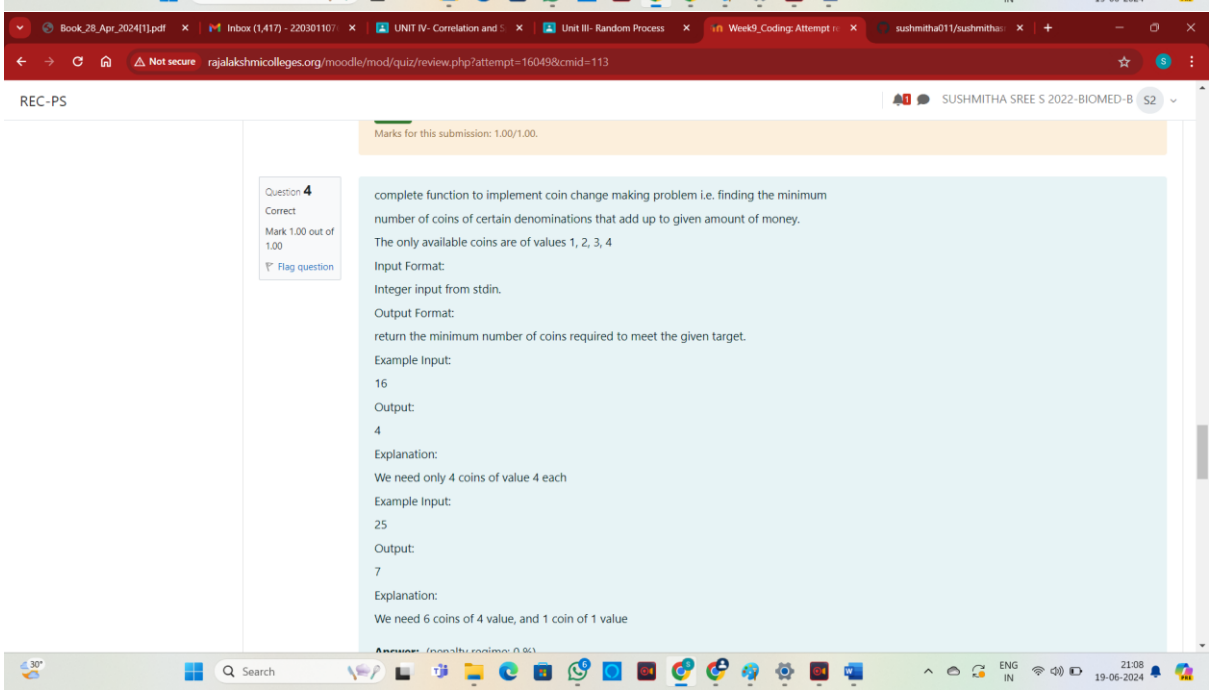
REC-PS
SUSHMITHA SREE S 2022-BIOMED-B
S2
Reset answer
def coinChange(target):
coins = [1, 2, 3, 4]
dp = [float('inf')] * (target + 1)
dp[0] = 0
for i in range(1, target + 1):
for coin in coins:
if coin <= i:
dp[i] = min(dp[i], dp[i - coin] + 1)
return dp[target]
Test
Expected
Got
print(coinChange(16))
4
4
Passed all tests!
Correct
Marks for this submission: 1.00/1.00.
Search
ENG
IN
21:08
19-06-2024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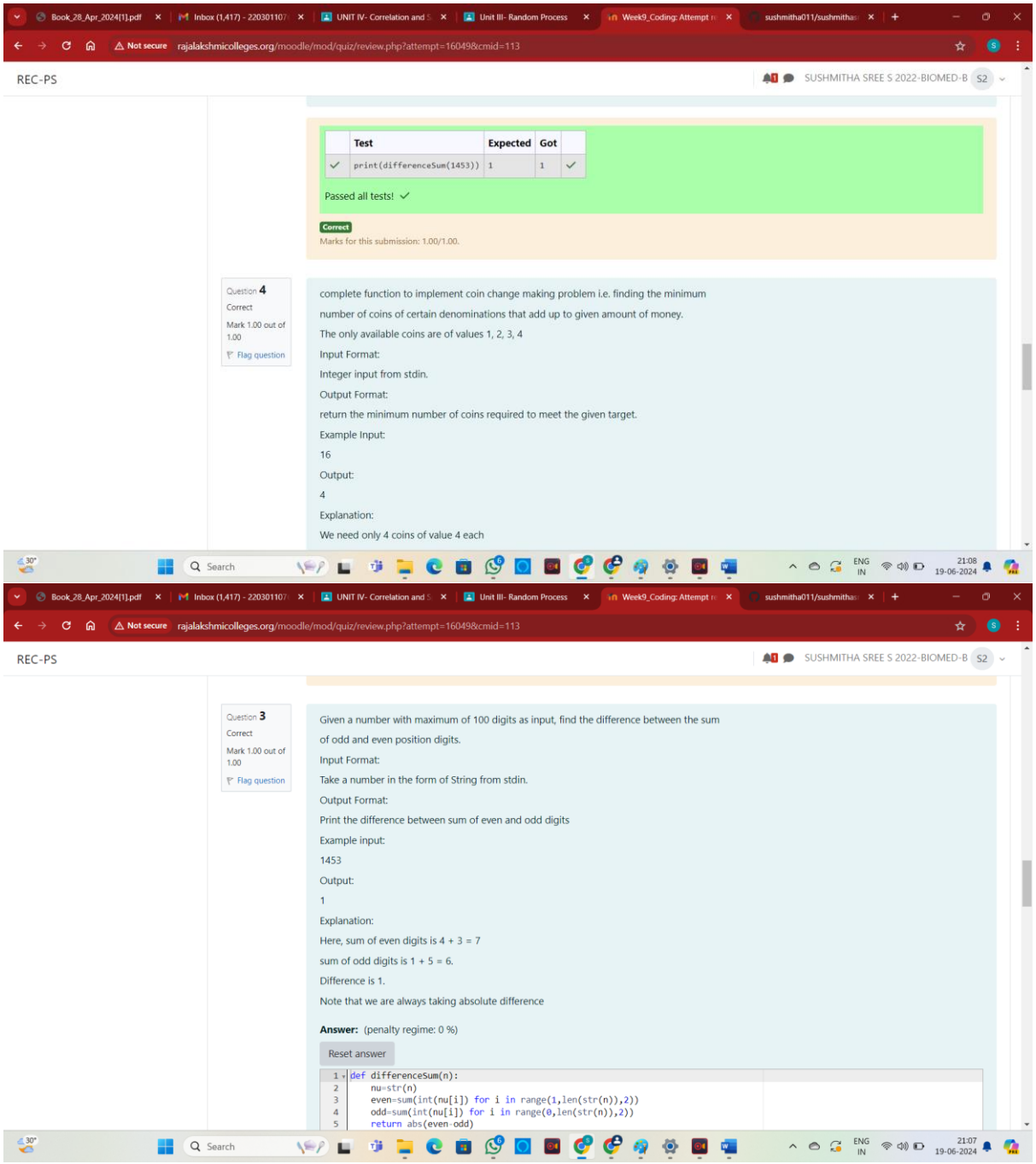
REC-PS
SUSHMITHA SREE S 2022-BIOMED-B
S2
Marks for this submission: 1.00/1.00.
Question 4
Correct
Mark 1.00 out of 1.00
Flag question
complete function to implement coin change making problem i.e. finding the minimum
number of coins of certain denominations that add up to given amount of money.
The only available coins are of values 1, 2, 3, 4
Input Format:
Integer input from stdin.
Output Format:
return the minimum number of coins required to meet the given target.
Example Input:
16
Output:
4
Explanation:
We need only 4 coins of value 4 each
Example Input:
25
Output:
7
Explanation:
We need 6 coins of 4 value, and 1 coin of 1 value
Search
ENG
IN
21:08
19-06-2024



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	Test	Expected	Got	
✓	print(differenceSum(1453))	1	1	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 4

Correct

Mark 1.00 out of 1.00

Flag question

complete function to implement coin change making problem i.e. finding the minimum number of coins of certain denominations that add up to given amount of money.

The only available coins are of values 1, 2, 3, 4

Input Format:

Integer input from stdin.

Output Format:

return the minimum number of coins required to meet the given target.

Example Input:

16

Output:

4

Explanation:

We need only 4 coins of value 4 each

Search

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REC-PS

SUSHMITHA SREE S 2022-BIOMED-B S2

Question 3

Correct

Mark 1.00 out of 1.00

Flag question

Given a number with maximum of 100 digits as input, find the difference between the sum of odd and even position digits.

Input Format:

Take a number in the form of String from stdin.

Output Format:

Print the difference between sum of even and odd digits

Example input:

1453

Output:

1

Explanation:

Here, sum of even digits is 4 + 3 = 7

sum of odd digits is 1 + 5 = 6.

Difference is 1.

Note that we are always taking absolute difference

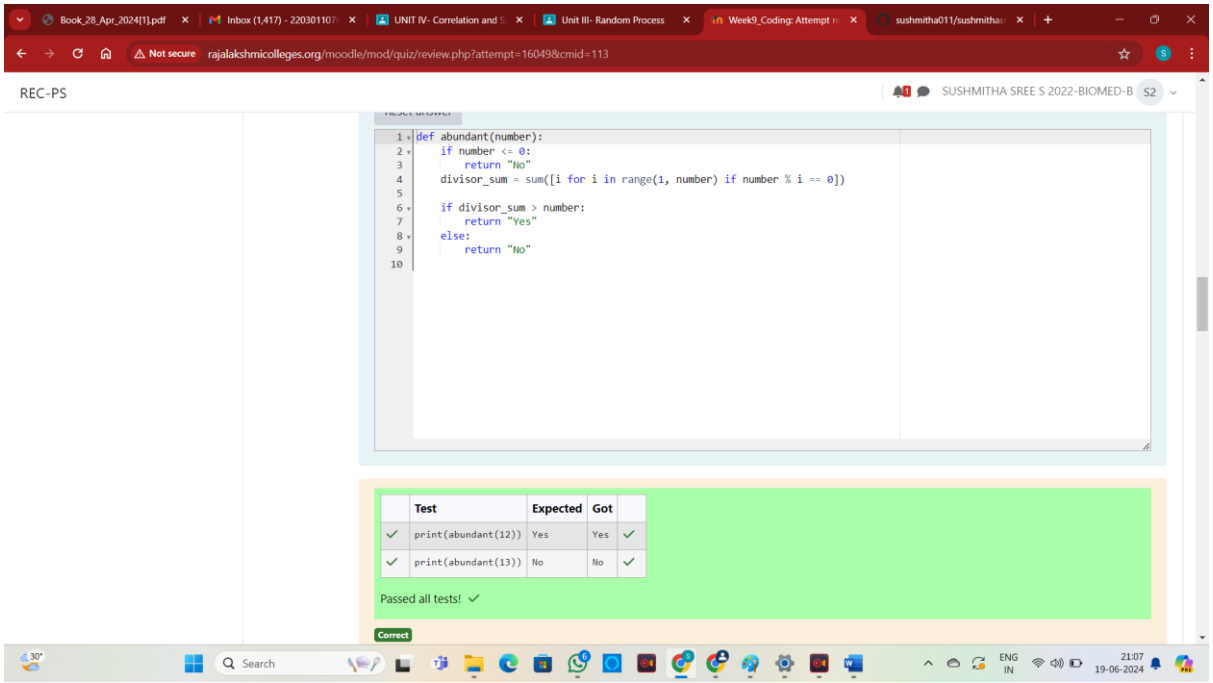
Answer: (penalty regime: 0 %)

Reset answer

```
1 def differenceSum(n):
2     nu=str(n)
3     even=sum(int(nu[i]) for i in range(1,len(str(n)),2))
4     odd=sum(int(nu[i]) for i in range(0,len(str(n)),2))
5     return abs(even-odd)
```

Search

ENG IN 21:07 19-06-2024



```
def abundant(number):
    if number <= 0:
        return "No"
    divisor_sum = sum([i for i in range(1, number) if number % i == 0])

    if divisor_sum > number:
        return "Yes"
    else:
        return "No"
```

	Test	Expected	Got	
✓	print(abundant(12))	Yes	Yes	✓
✓	print(abundant(13))	No	No	✓

Passed all tests! ✓

Correct

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REC-PS
SUSHMITHA SREE S 2022-BIOMED-B S2

Question 2

Correct

Mark 1.00 out of 1.00

Flag question

An abundant number is a number for which the sum of its proper divisors is greater than the number itself. Proper divisors of the number are those that are strictly lesser than the number.

Input Format:

Take input an integer from stdin

Output Format:

Return Yes if given number is Abundant. Otherwise, print No

Example input:

12

Output:

Yes

Explanation

The proper divisors of 12 are: 1, 2, 3, 4, 6, whose sum is 1 + 2 + 3 + 4 + 6 = 16. Since sum of proper divisors is greater than the given number, 12 is an abundant number.

Example input:

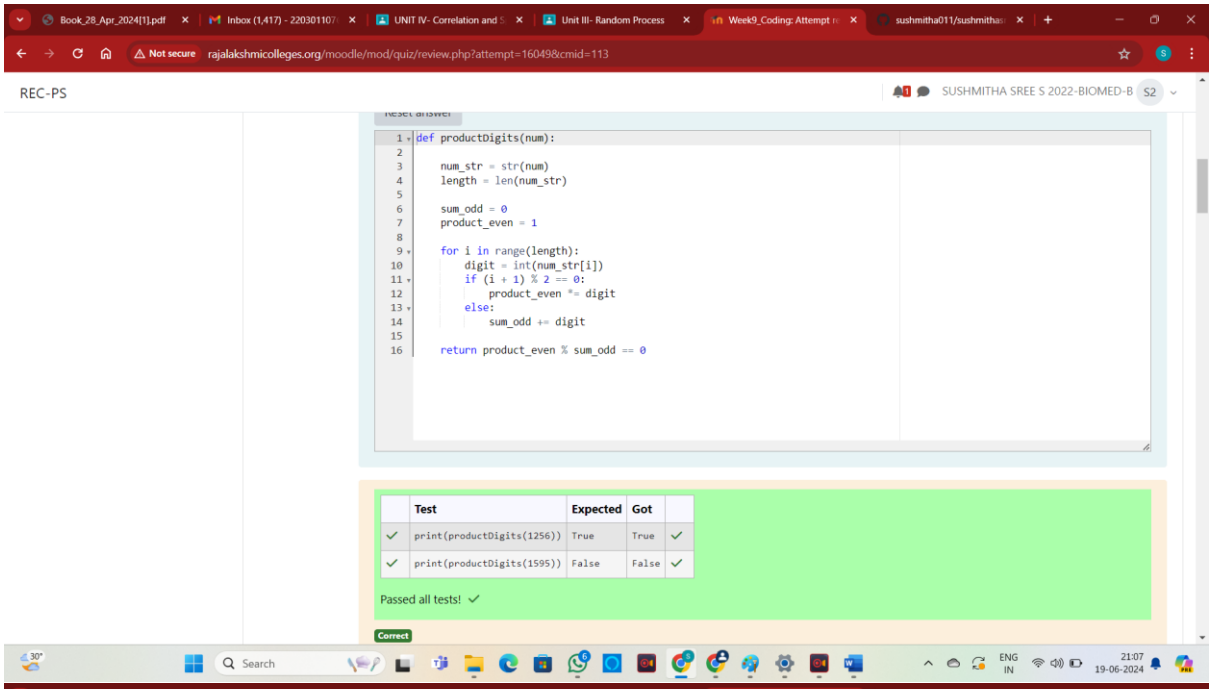
13

Output:

No

Explanation

The proper divisors of 13 is: 1, whose sum is 1. Since sum of proper divisors is not greater than the given number, 13 is not an abundant number.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SUSHMITHA SREE S 2022-BIOMED-B
S2
def productDigits(num):
num_str = str(num)
length = len(num_str)
sum_odd = 0
product_even = 1
for i in range(length):
digit = int(num_str[i])
if (i + 1) % 2 == 0:
product_even *= digit
else:
sum_odd += digit
return product_even % sum_odd == 0
Test
Expected
Got
print(productDigits(1256))
True
True
print(productDigits(1595))
False
False
Passed all tests!
Correct
Search
ENG
IN
21:07
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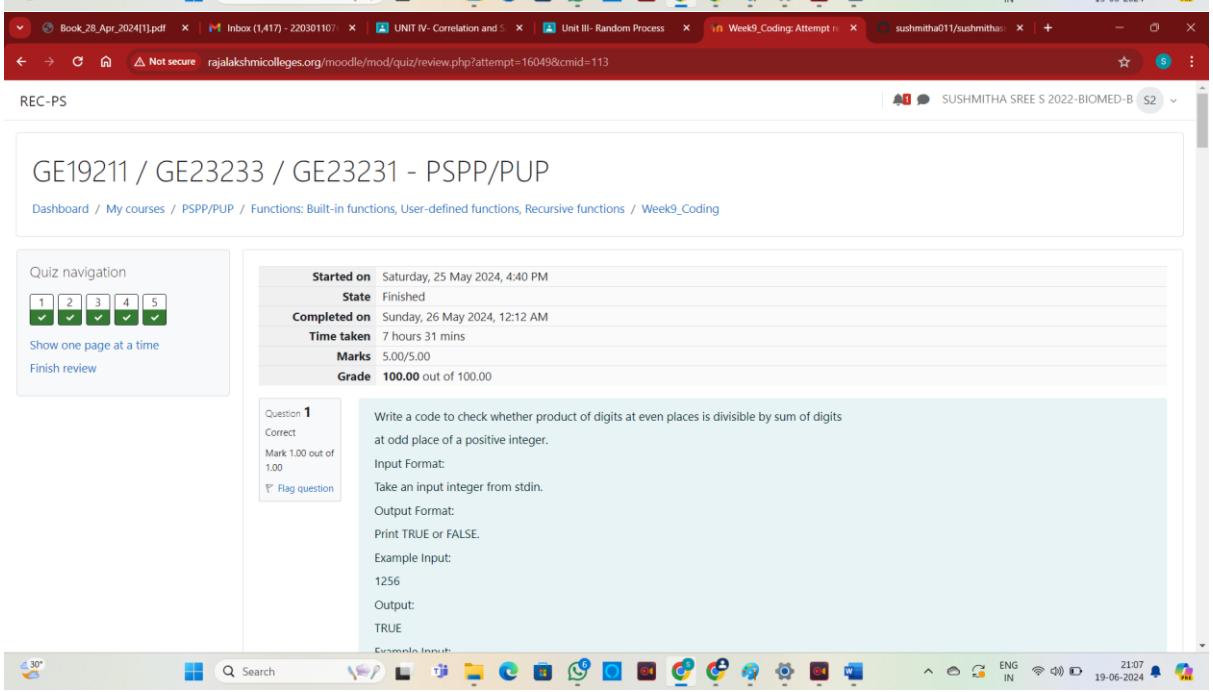
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S2
GE19211 / GE23233 / GE23231 - PSPP/PUP
Dashboard / My courses / PSPP/PUP / Functions: Built-in functions, User-defined functions, Recursive functions / Week9_Coding
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Finish review
Started on Saturday, 25 May 2024, 4:40 PM
State Finished
Completed on Sunday, 26 May 2024, 12:12 AM
Time taken 7 hours 31 mins
Marks 5.00/5.00
Grade 100.00 out of 100.00
Question 1
Correct
Mark 1.00 out of 1.00
Flag question
Write a code to check whether product of digits at even places is divisible by sum of digits
at odd place of a positive integer.
Input Format:
Take an input integer from stdin.
Output Format:
Print TRUE or FALSE.
Example Input:
1256
Output:
TRUE
Search
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IN
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