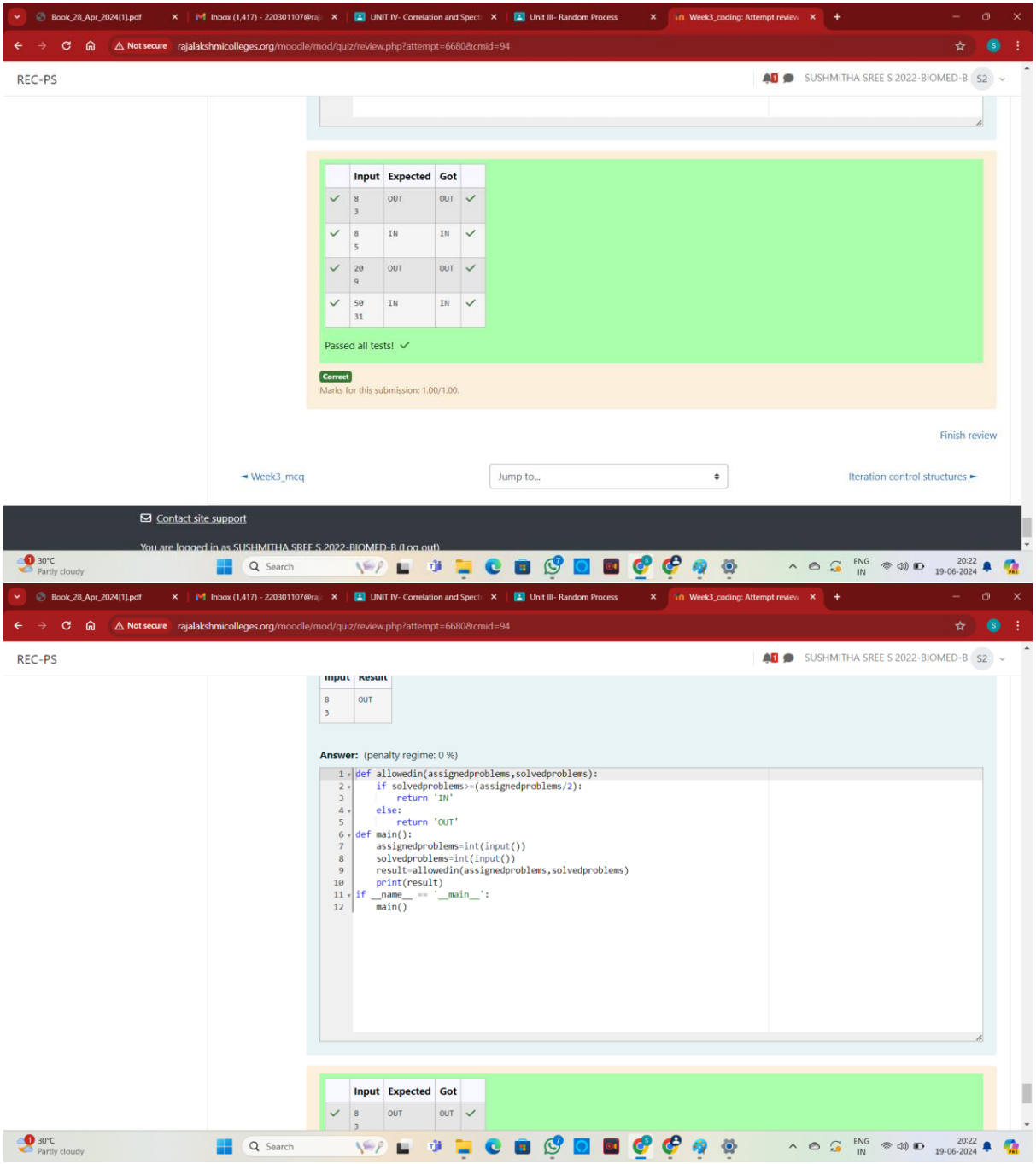
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Unit III- Random Process
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REC-PS
SUSHMITHA SREE S 2022-BIOMED-B
S2
Input
Expected
Got
8 3
OUT
OUT
8 5
IN
IN
20 9
OUT
OUT
50 31
IN
IN
Passed all tests!
Correct
Marks for this submission: 1.00/1.00.
Finish review
◄ Week3_mcq
Jump to...
Iteration control structures ►
Contact site support
You are logged in as SUSHMITHA SREE S 2022-BIOMED-B (Log out)
30°C
Partly cloudy
Search
ENG
IN
20:22
19-06-2024


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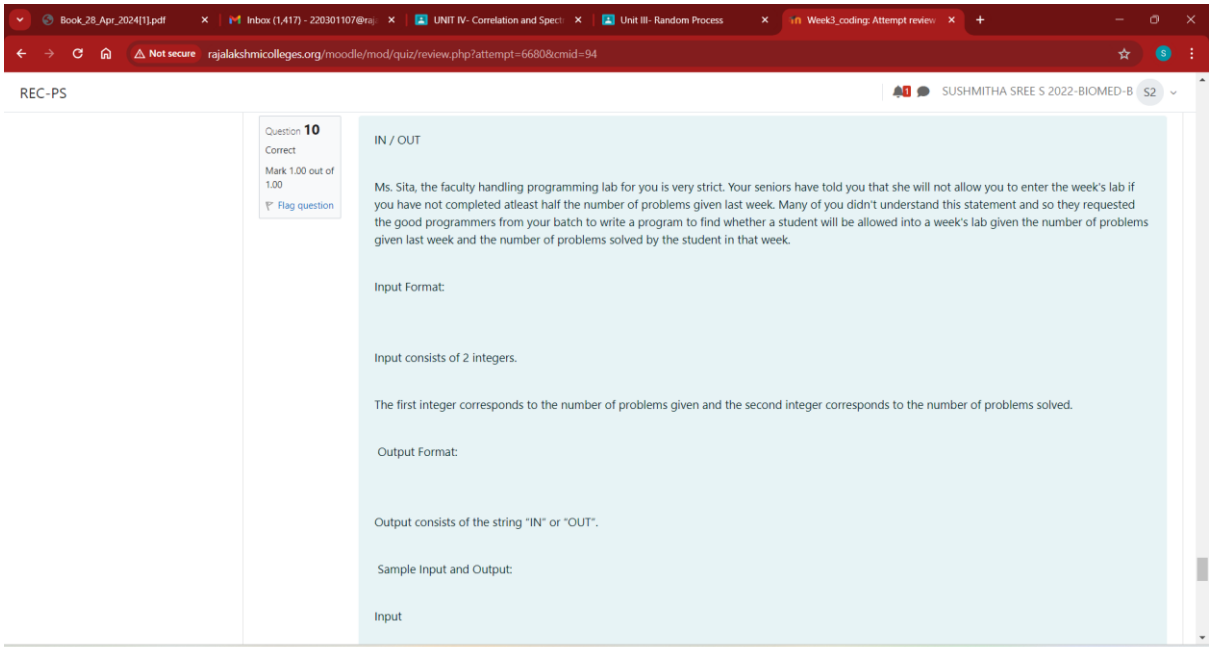
REC-PS
SUSHMITHA SREE S 2022-BIOMED-B
S2
Input
Result
8 3
OUT
Answer: (penalty regime: 0 %)
def allowedin(assignedproblems,solvedproblems):
if solvedproblems>=(assignedproblems/2):
return 'IN'
else:
return 'OUT'
def main():
assignedproblems=int(input())
solvedproblems=int(input())
result=allowedin(assignedproblems,solvedproblems)
print(result)
if __name__ == '__main__':
main()
Input
Expected
Got
8 3
OUT
OUT
30°C
Partly cloudy
Search
ENG
IN
20:22
19-06-2024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Week3_coding: Attempt review
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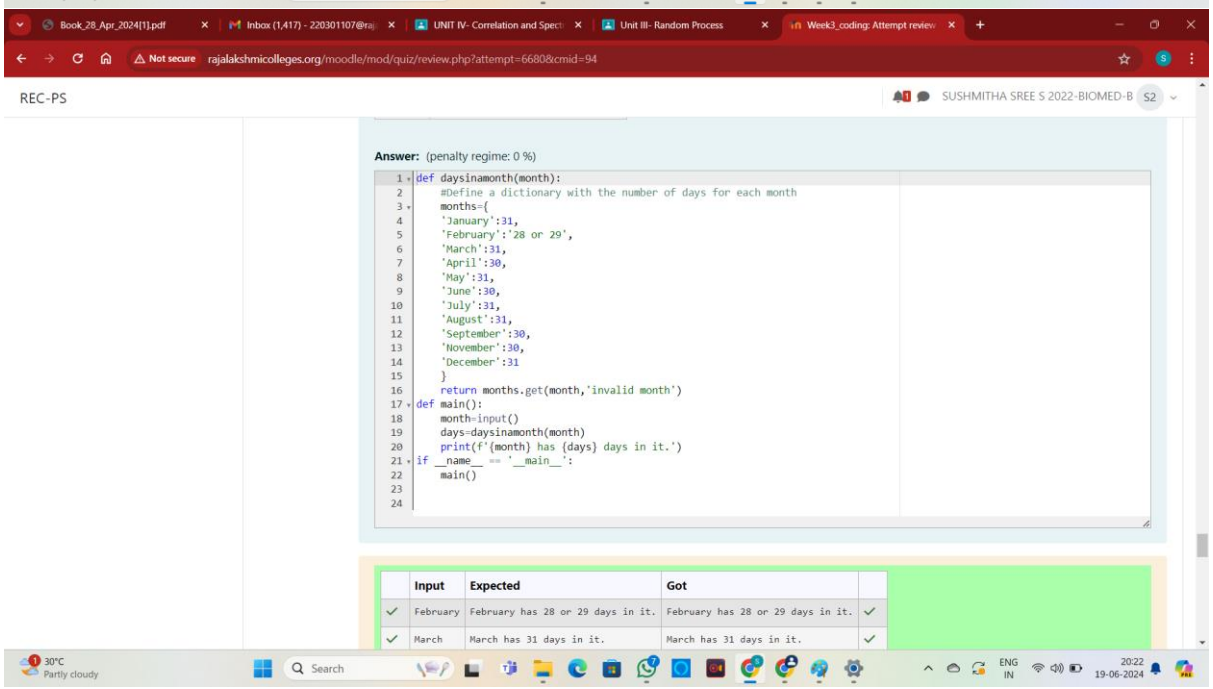
REC-PS
SUSHMITHA SREE S 2022-BIOMED-B
Question 10
Correct
Mark 1.00 out of 1.00
Flag question
IN / OUT
Ms. Sita, the faculty handling programming lab for you is very strict. Your seniors have told you that she will not allow you to enter the week's lab if you have not completed atleast half the number of problems given last week. Many of you didn't understand this statement and so they requested the good programmers from your batch to write a program to find whether a student will be allowed into a week's lab given the number of problems given last week and the number of problems solved by the student in that week.
Input Format:
Input consists of 2 integers.
The first integer corresponds to the number of problems given and the second integer corresponds to the number of problems solved.
Output Format:
Output consists of the string "IN" or "OUT".
Sample Input and Output:
Input
30°C
Partly cloudy
Search
ENG
IN
20:22
19-06-2024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Week3_coding: Attempt review
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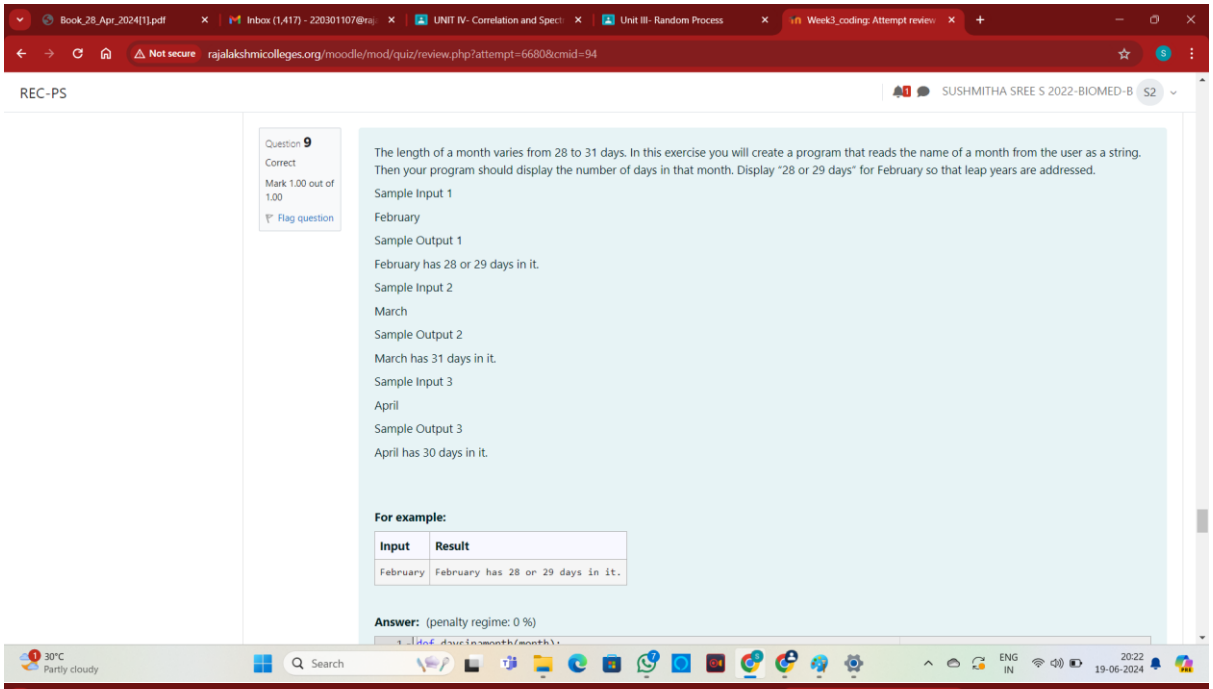
REC-PS
SUSHMITHA SREE S 2022-BIOMED-B
Answer: (penalty regime: 0 %)
def daysinamonth(month):
#Define a dictionary with the number of days for each month
months={
'January':31,
'February':'28 or 29',
'March':31,
'April':30,
'May':31,
'June':30,
'July':31,
'August':31,
'September':30,
'November':30,
'December':31
}
return months.get(month,'invalid month')
def main():
month=input()
days=daysinamonth(month)
print(f'{month} has {days} days in it.')
if __name__ == '__main__':
main()
Input
Expected
Got
February
February has 28 or 29 days in it.
February has 28 or 29 days in it.
March
March has 31 days in it.
March has 31 days in it.
30°C
Partly cloudy
Search
ENG
IN
20:22
19-06-2024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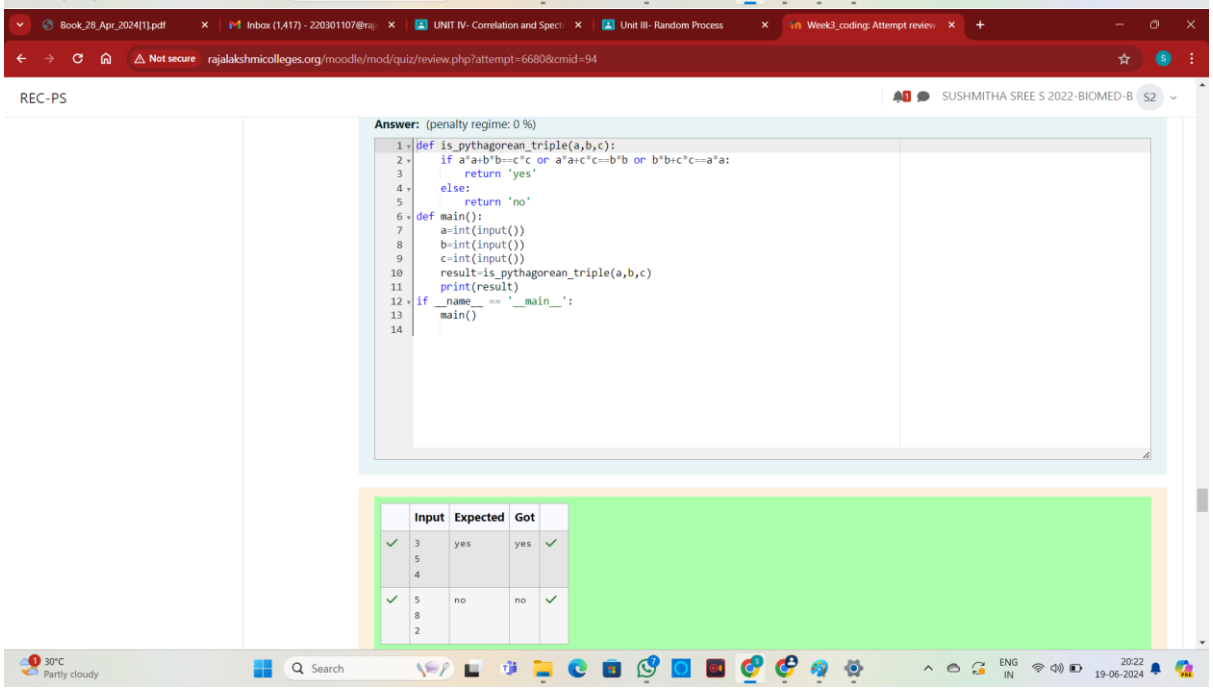
REC-PS
SUSHMITHA SREE S 2022-BIOMED-B
Question 9
Correct
Mark 1.00 out of 1.00
Flag question
The length of a month varies from 28 to 31 days. In this exercise you will create a program that reads the name of a month from the user as a string. Then your program should display the number of days in that month. Display "28 or 29 days" for February so that leap years are addressed.
Sample Input 1
February
Sample Output 1
February has 28 or 29 days in it.
Sample Input 2
March
Sample Output 2
March has 31 days in it.
Sample Input 3
April
Sample Output 3
April has 30 days in it.
For example:
Input
Result
February
February has 28 or 29 days in it.
Answer: (penalty regime: 0 %)
30°C
Partly cloudy
Search
ENG
IN
20:22
19-06-2024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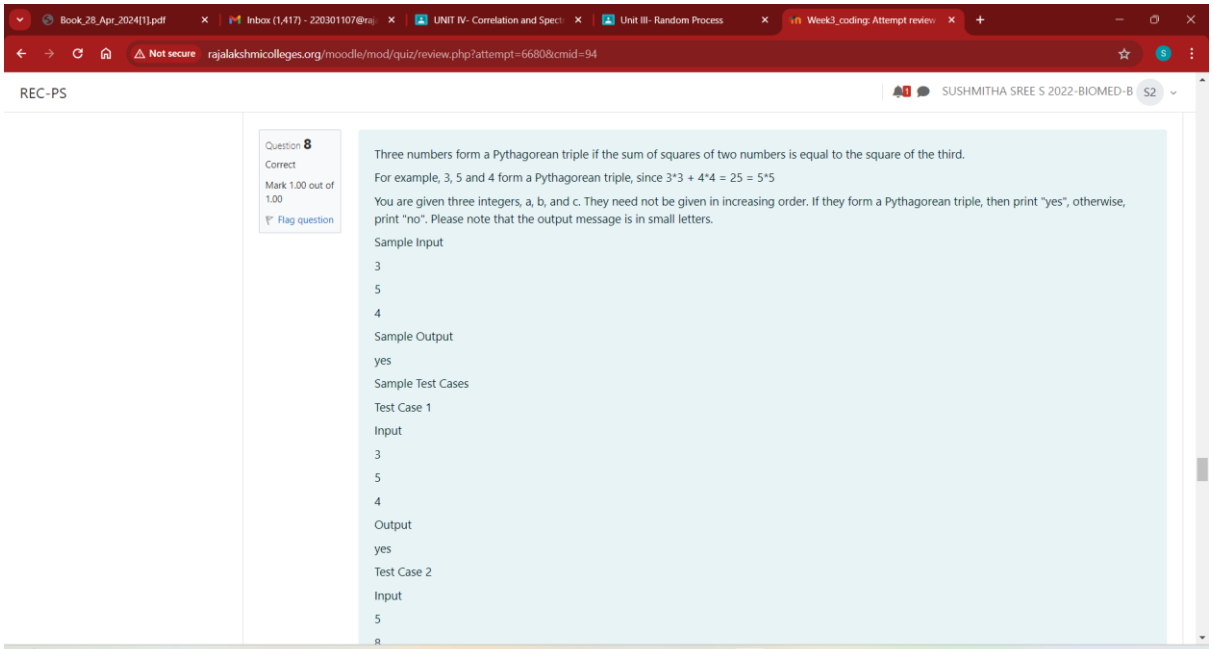
REC-PS
SUSHMITHA SREE S 2022-BIOMED-B
Answer: (penalty regime: 0 %)
def is_pythagorean_triple(a,b,c):
if a**a+b**b==c**c or a**a+c**c==b**b or b**b+c**c==a**a:
return 'yes'
else:
return 'no'
def main():
a=int(input())
b=int(input())
c=int(input())
result=is_pythagorean_triple(a,b,c)
print(result)
if __name__ == '__main__':
main()
Input
Expected
Got
3
5
4
yes
yes
5
8
2
no
no
30°C
Partly cloudy
Search
ENG
IN
20:22
19-06-2024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Unit III- Random Process
Week3_coding: Attempt review
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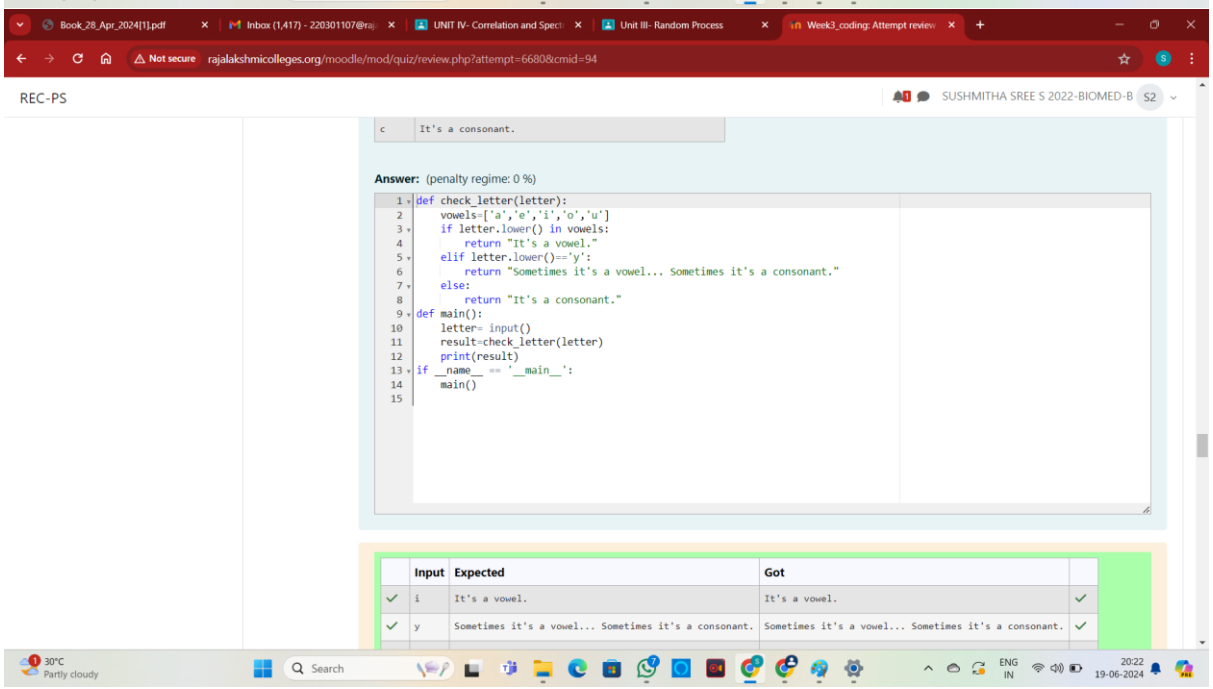
REC-PS
SUSHMITHA SREE S 2022-BIOMED-B
Question 8
Correct
Mark 1.00 out of 1.00
Flag question
Three numbers form a Pythagorean triple if the sum of squares of two numbers is equal to the square of the third.
For example, 3, 5 and 4 form a Pythagorean triple, since 3*3 + 4*4 = 25 = 5*5
You are given three integers, a, b, and c. They need not be given in increasing order. If they form a Pythagorean triple, then print "yes", otherwise, print "no". Please note that the output message is in small letters.
Sample Input
3
5
4
Sample Output
yes
Sample Test Cases
Test Case 1
Input
3
5
4
Output
yes
Test Case 2
Input
5
30°C
Partly cloudy
Search
ENG
IN
20:22
19-06-2024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Week3_coding: Attempt review
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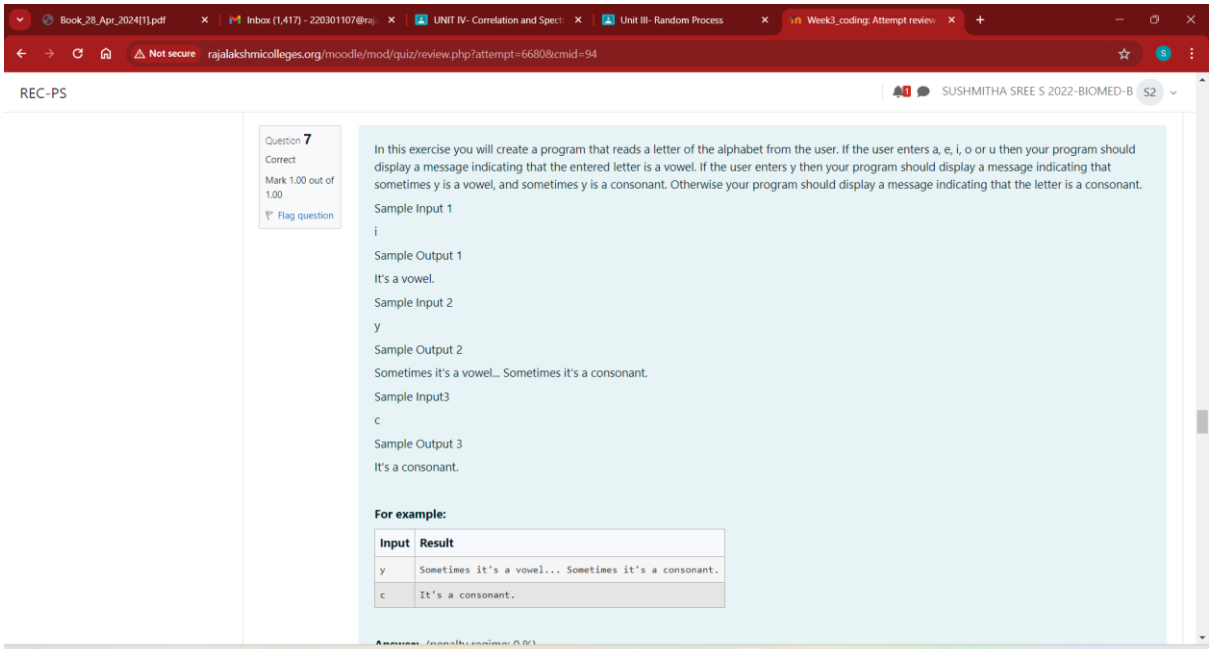
REC-PS
SUSHMITHA SREE S 2022-BIOMED-B
c
It's a consonant.
Answer: (penalty regime: 0 %)
def check_letter(letter):
vowels=['a','e','i','o','u']
if letter.lower() in vowels:
return "It's a vowel."
elif letter.lower()=='y':
return "Sometimes it's a vowel... Sometimes it's a consonant."
else:
return "It's a consonant."
def main():
letter= input()
result=check_letter(letter)
print(result)
if __name__ == '__main__':
main()
Input
Expected
Got
i
It's a vowel.
It's a vowel.
y
Sometimes it's a vowel... Sometimes it's a consonant.
Sometimes it's a vowel... Sometimes it's a consonant.
30°C
Partly cloudy
Search
ENG
IN
20:22
19-06-2024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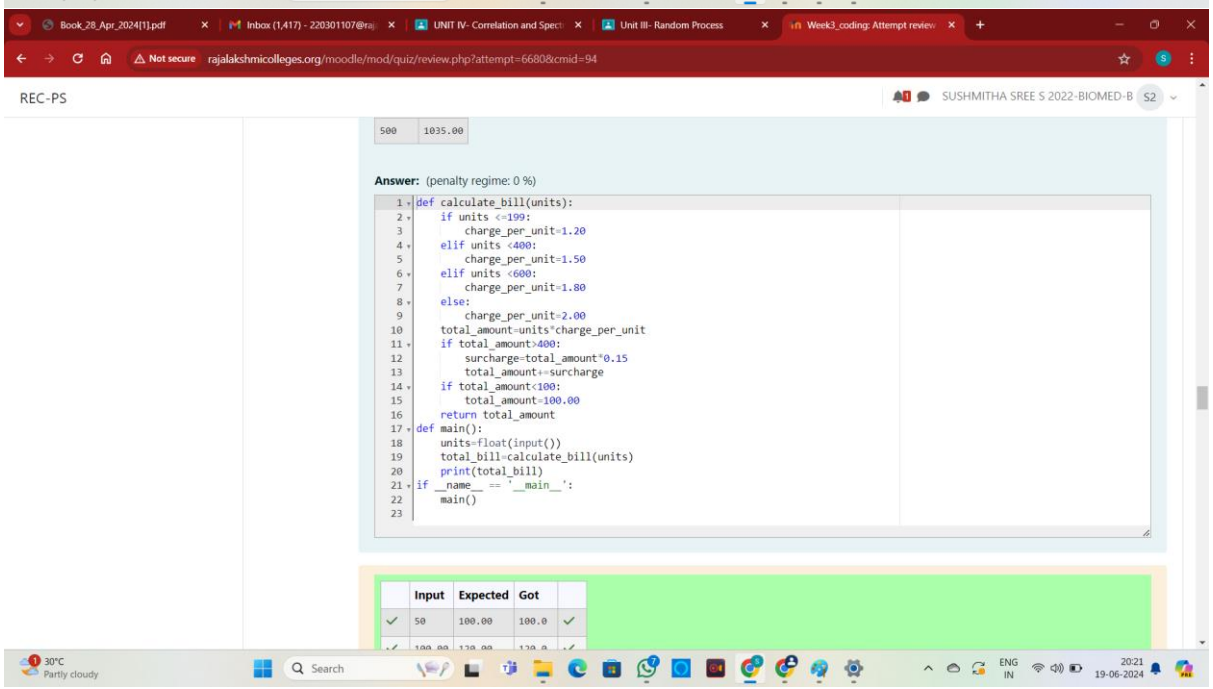
REC-PS
SUSHMITHA SREE S 2022-BIOMED-B
Question 7
Correct
Mark 1.00 out of 1.00
Flag question
In this exercise you will create a program that reads a letter of the alphabet from the user. If the user enters a, e, i, o or u then your program should display a message indicating that the entered letter is a vowel. If the user enters y then your program should display a message indicating that sometimes y is a vowel, and sometimes y is a consonant. Otherwise your program should display a message indicating that the letter is a consonant.
Sample Input 1
i
Sample Output 1
It's a vowel.
Sample Input 2
y
Sample Output 2
Sometimes it's a vowel... Sometimes it's a consonant.
Sample Input3
c
Sample Output 3
It's a consonant.
For example:
Input
Result
y
Sometimes it's a vowel... Sometimes it's a consonant.
c
It's a consonant.
30°C
Partly cloudy
Search
ENG
IN
20:22
19-06-2024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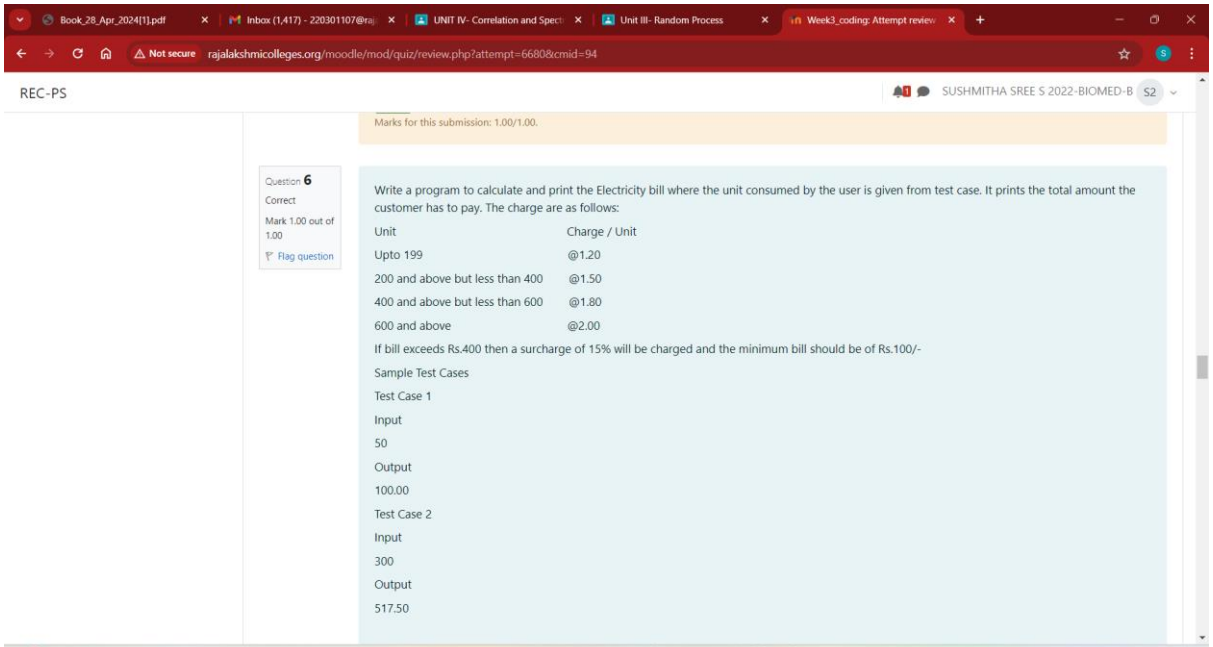
REC-PS
SUSHMITHA SREE S 2022-BIOMED-B
500
1035.00
Answer: (penalty regime: 0 %)
def calculate_bill(units):
if units <=199:
charge_per_unit=1.20
elif units <400:
charge_per_unit=1.50
elif units <600:
charge_per_unit=1.80
else:
charge_per_unit=2.00
total_amount=units*charge_per_unit
if total_amount>400:
surcharge=total_amount*0.15
total_amount+=surcharge
if total_amount<100:
total_amount=100.00
return total_amount
def main():
units=float(input())
total_bill=calculate_bill(units)
print(total_bill)
if __name__ == '__main__':
main()
Input
Expected
Got
50
100.00
100.0
30°C
Partly cloudy
Search
ENG
IN
20:21
19-06-2024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Unit III- Random Process
Week3_coding: Attempt review
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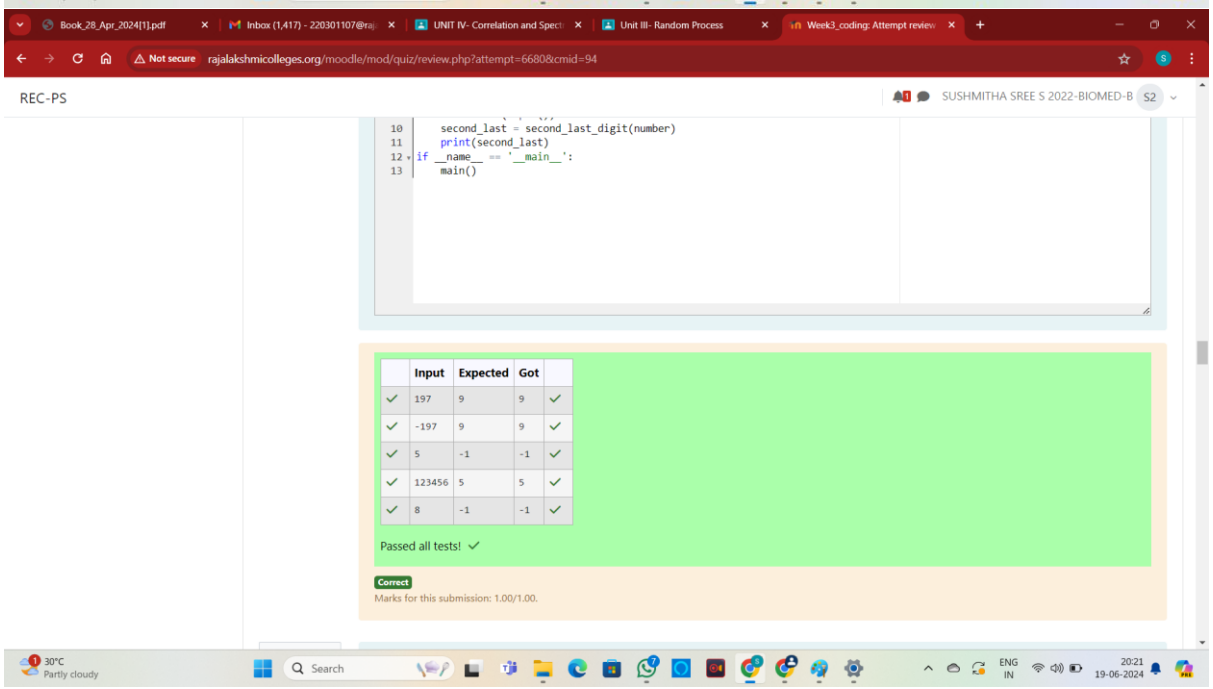
REC-PS
SUSHMITHA SREE S 2022-BIOMED-B
Marks for this submission: 1.00/1.00.
Question 6
Correct
Mark 1.00 out of 1.00
Flag question
Write a program to calculate and print the Electricity bill where the unit consumed by the user is given from test case. It prints the total amount the customer has to pay. The charge are as follows:
Unit Charge / Unit
Upto 199 @1.20
200 and above but less than 400 @1.50
400 and above but less than 600 @1.80
600 and above @2.00
If bill exceeds Rs.400 then a surcharge of 15% will be charged and the minimum bill should be of Rs.100/-
Sample Test Cases
Test Case 1
Input
50
Output
100.00
Test Case 2
Input
300
Output
517.50
30°C
Partly cloudy
Search
ENG
IN
20:21
19-06-2024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REC-PS
SUSHMITHA SREE S 2022-BIOMED-B
second_last = second_last_digit(number)
print(second_last)
if __name__ == '__main__':
main()
Input Expected Got
197 9 9
-197 9 9
5 -1 -1
123456 5 5
8 -1 -1
Passed all tests!
Correct
Marks for this submission: 1.00/1.00.
30°C
Partly cloudy
Search
ENG
IN
20:21
19-06-2024

Question **5**
Correct
Mark 1.00 out of 1.00
Flag question

Write a program that returns the second last digit of the given number. Second last digit is being referred 10the digit in the tens place in the given number.

For example, if the given number is 197, the second last digit is 9.

Note1 - The second last digit should be returned as a positive number. i.e. if the given number is -197, the second last digit is 9.

Note2 - If the given number is a single digit number, then the second last digit does not exist. In such cases, the program should return -1. i.e. if the given number is 5, the second last digit should be returned as -1

**For example:**

| Input | Result |
|---|---|
| 197 | 9 |
| 5 | -1 |

**Answer:** (penalty regime: 0 %)

```
def second_last_digit(number):
    #Convert the number to a string to easily access individual digits
    num_str=str(number)
    if len(num_str) < 2:
        return -1
    second_last = int(num_str[-2])
    return second_last
def main():
    number=int(input())
    second_last = second_last_digit(number)
    print(second_last)
if __name__ == '__main__':
    main()
```

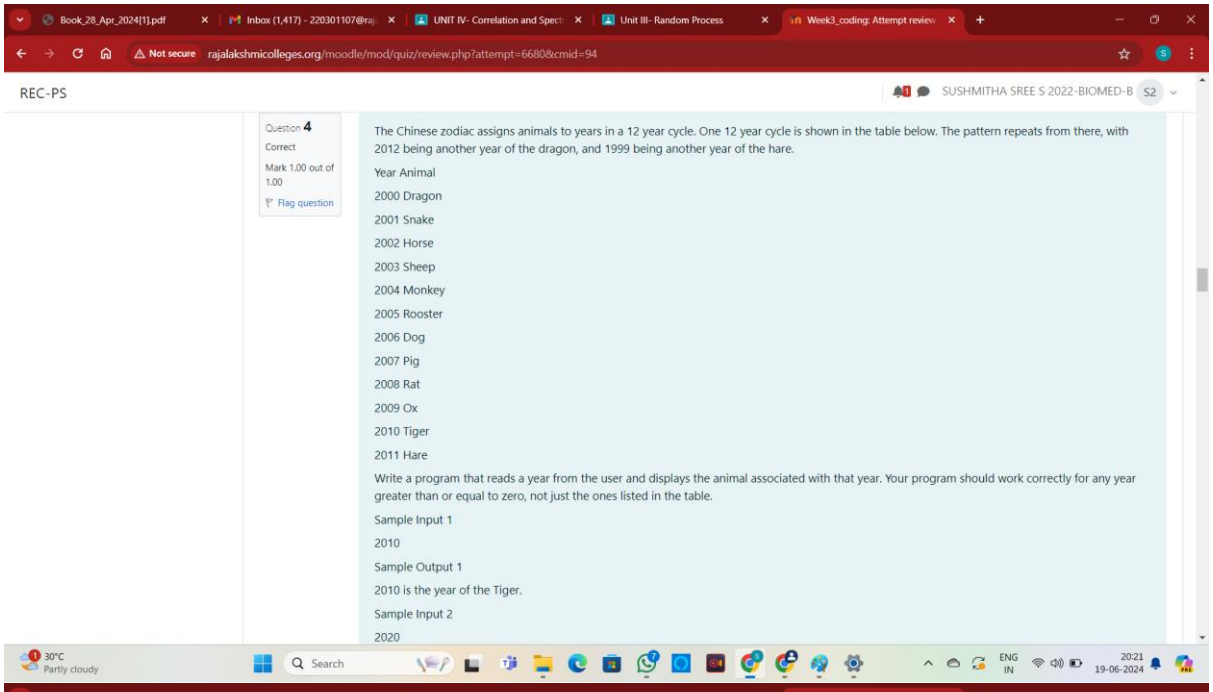


2020 is the year of the Rat.

**Answer:** (penalty regime: 0 %)

```
def chinese_zodiac(year):
    zodiac_animals = ['Dragon','Snake','Horse','Sheep','Monkey','Rooster','Dog','Pig','Rat','Ox','Tiger','Hare']
    start_year=2000 # Year of the Dragon
    animal_index=(year-start_year) % 12
    animal=zodiac_animals[animal_index]
    return animal
def main():
    year=int(input())
    animal=chinese_zodiac(year)
    print(f"{year} is the year of the {animal}.")
if __name__ == "__main__":
    main()
```

| | Input | Expected | Got | |
|---|---|---|---|---|
| ✓ | 2010 | 2010 is the year of the Tiger. | 2010 is the year of the Tiger. | ✓ |
| ✓ | 2020 | 2020 is the year of the Rat. | 2020 is the year of the Rat. | ✓ |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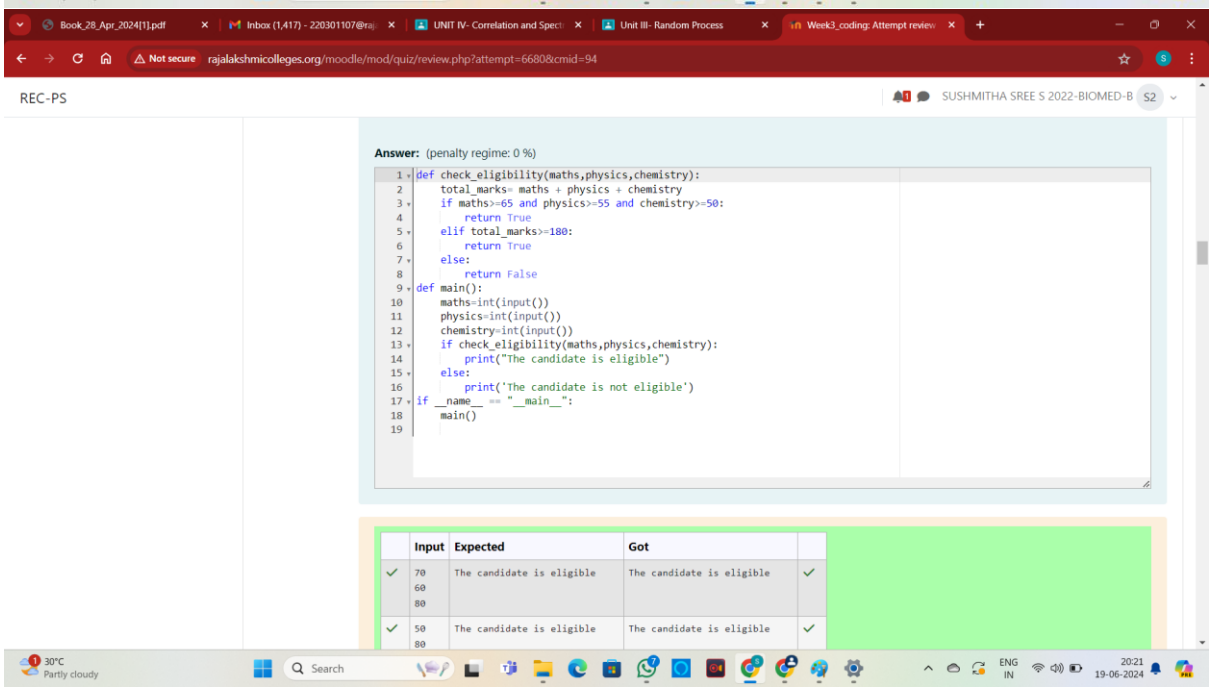
REC-PS
SUSHMITHA SREE S 2022-BIOMED-B
Question 4
Correct
Mark 1.00 out of 1.00
Flag question
The Chinese zodiac assigns animals to years in a 12 year cycle. One 12 year cycle is shown in the table below. The pattern repeats from there, with 2012 being another year of the dragon, and 1999 being another year of the hare.
Year Animal
2000 Dragon
2001 Snake
2002 Horse
2003 Sheep
2004 Monkey
2005 Rooster
2006 Dog
2007 Pig
2008 Rat
2009 Ox
2010 Tiger
2011 Hare
Write a program that reads a year from the user and displays the animal associated with that year. Your program should work correctly for any year greater than or equal to zero, not just the ones listed in the table.
Sample Input 1
2010
Sample Output 1
2010 is the year of the Tiger.
Sample Input 2
2020
30°C
Partly cloudy
Search
ENG
IN
20:21
19-06-2024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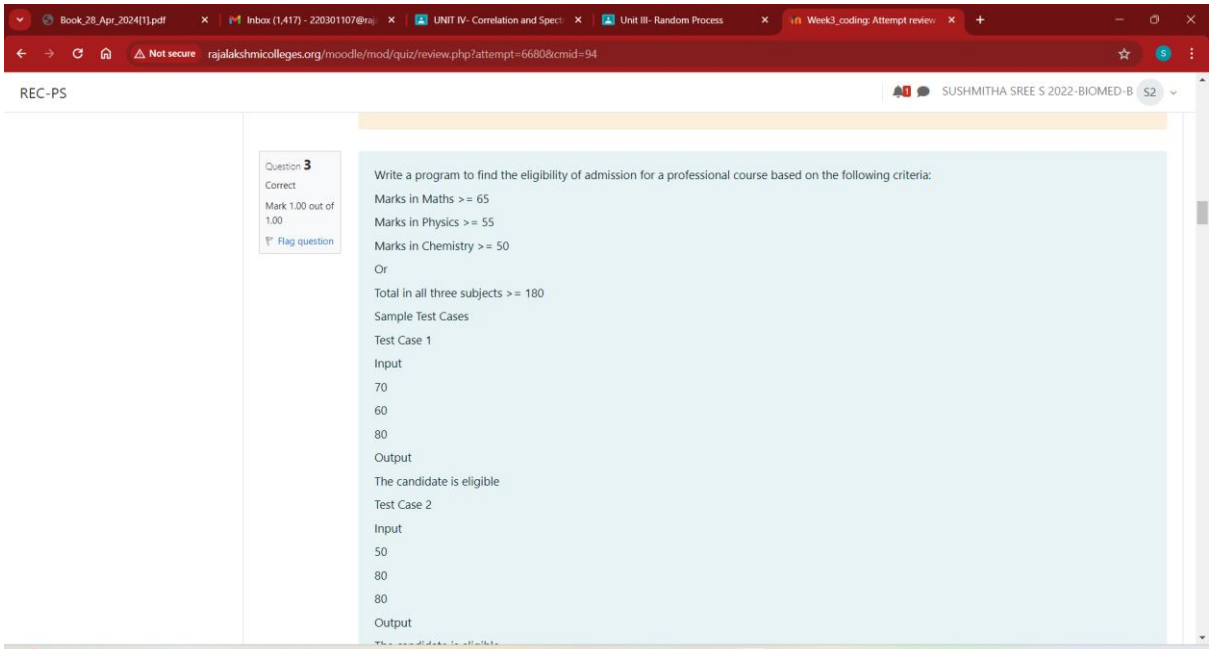
REC-PS
SUSHMITHA SREE S 2022-BIOMED-B
Answer: (penalty regime: 0 %)
def check_eligibility(maths,physics,chemistry):
total_marks= maths + physics + chemistry
if maths>=65 and physics>=55 and chemistry>=50:
return True
elif total_marks>=180:
return True
else:
return False
def main():
maths=int(input())
physics=int(input())
chemistry=int(input())
if check_eligibility(maths,physics,chemistry):
print("The candidate is eligible")
else:
print('The candidate is not eligible')
if __name__ == "__main__":
main()
Input
Expected
Got
70
60
80
The candidate is eligible
The candidate is eligible
50
80
The candidate is eligible
The candidate is eligible
30°C
Partly cloudy
Search
ENG
IN
20:21
19-06-2024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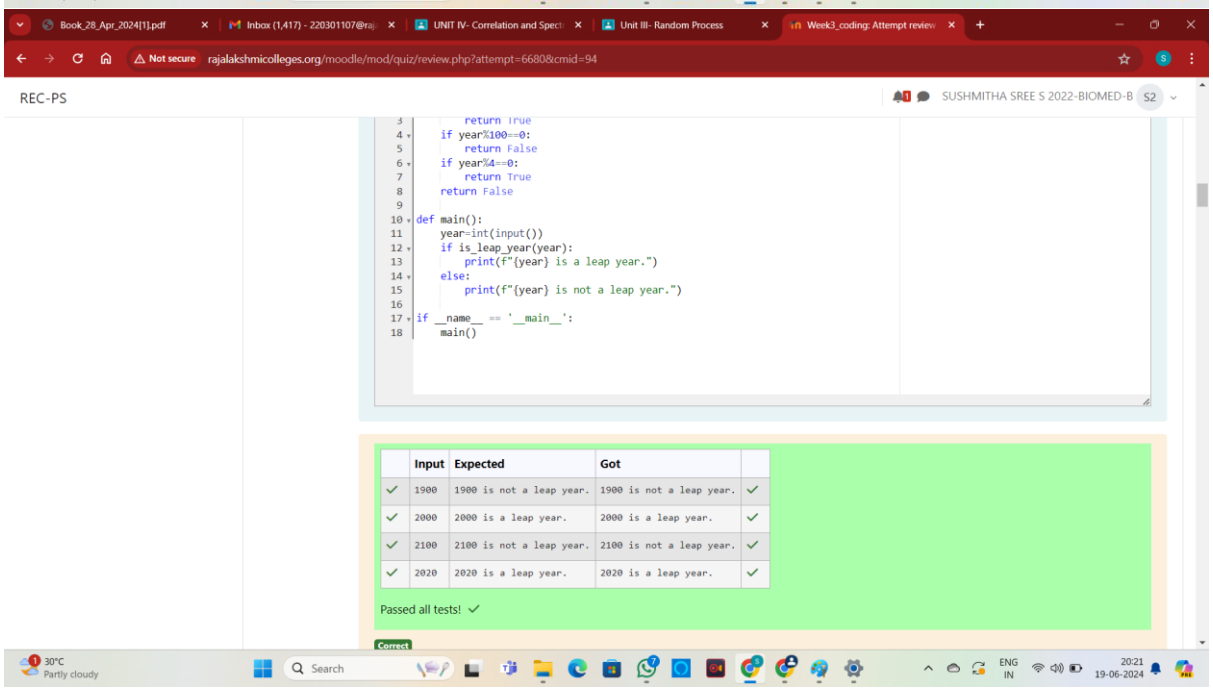
REC-PS
SUSHMITHA SREE S 2022-BIOMED-B
Question 3
Correct
Mark 1.00 out of 1.00
Flag question
Write a program to find the eligibility of admission for a professional course based on the following criteria:
Marks in Maths >= 65
Marks in Physics >= 55
Marks in Chemistry >= 50
Or
Total in all three subjects >= 180
Sample Test Cases
Test Case 1
Input
70
60
80
Output
The candidate is eligible
Test Case 2
Input
50
80
80
Output
30°C
Partly cloudy
Search
ENG
IN
20:21
19-06-2024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Not secure
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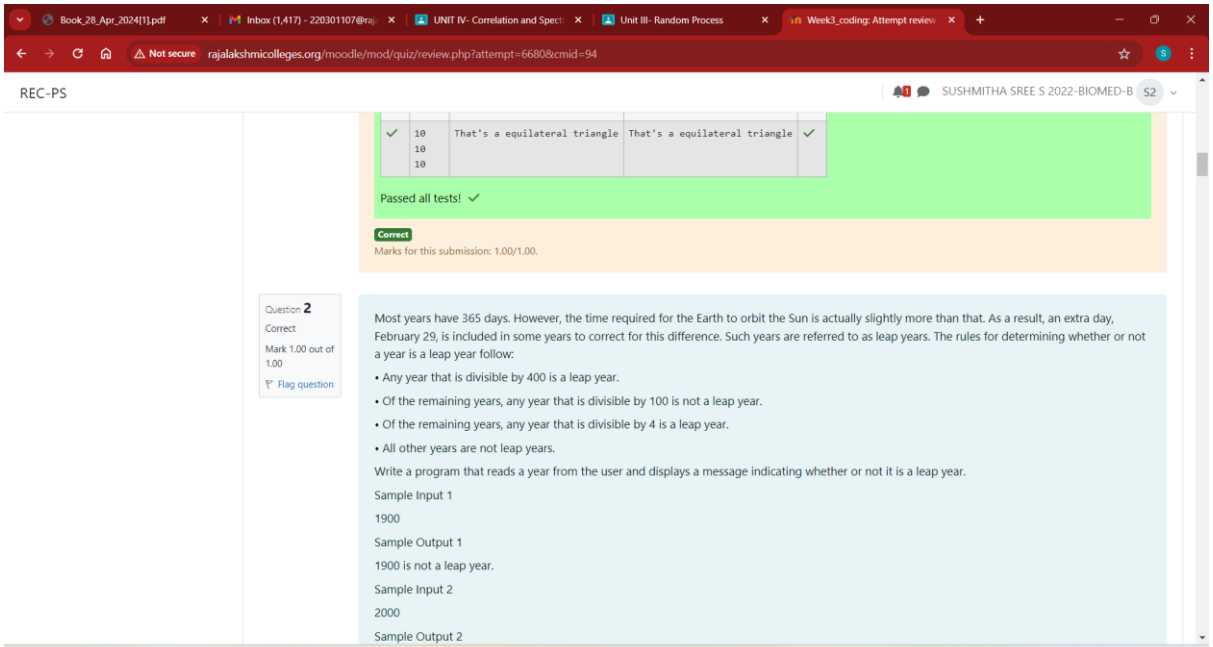
REC-PS
SUSHMITHA SREE S 2022-BIOMED-B
return True
if year%100==0:
return False
if year%4==0:
return True
return False
def main():
year=int(input())
if is_leap_year(year):
print(f"{year} is a leap year.")
else:
print(f"{year} is not a leap year.")
if __name__ == '__main__':
main()
Input
Expected
Got
1900
1900 is not a leap year.
1900 is not a leap year.
2000
2000 is a leap year.
2000 is a leap year.
2100
2100 is not a leap year.
2100 is not a leap year.
2020
2020 is a leap year.
2020 is a leap year.
Passed all tests!
Correct
30°C
Partly cloudy
Search
ENG
IN
20:21
19-06-2024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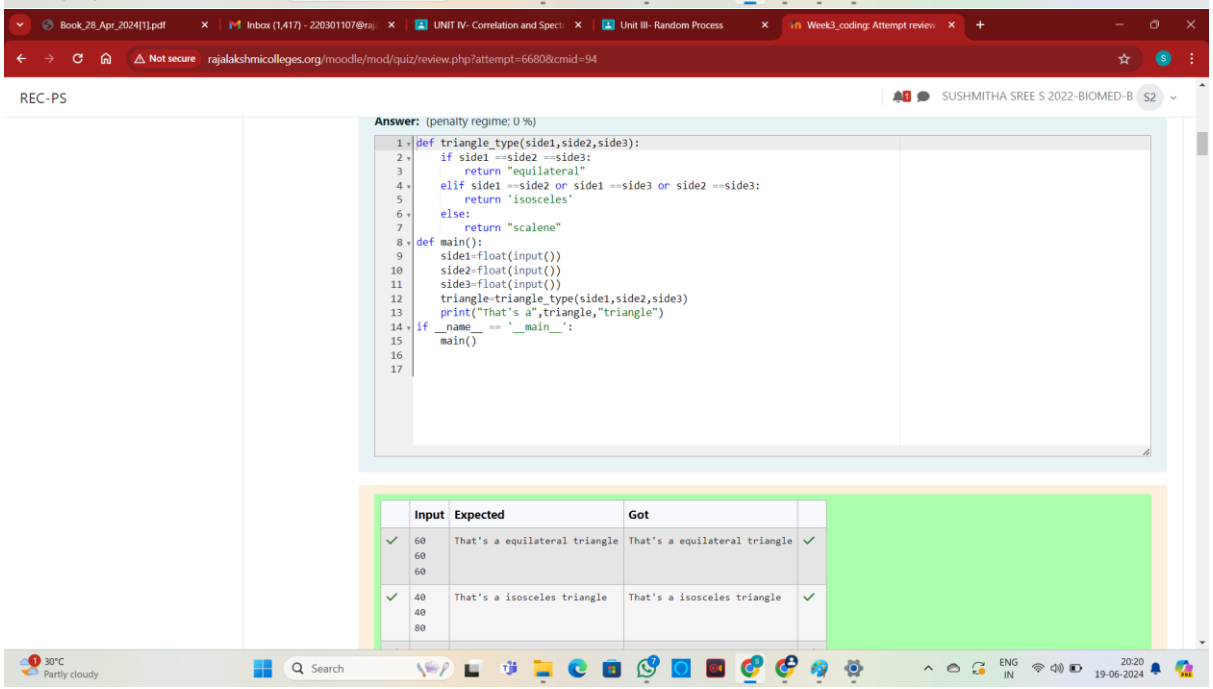
UNIT IV- Correlation and Spect
Unit III- Random Process
Week3_coding: Attempt review
Not secure
rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=6680&cmid=94
REC-PS
SUSHMITHA SREE S 2022-BIOMED-B
10 10 10 | That's a equilateral triangle | That's a equilateral triangle
Passed all tests!
Correct
Marks for this submission: 1.00/1.00.
Question 2
Correct
Mark 1.00 out of 1.00
Flag question
Most years have 365 days. However, the time required for the Earth to orbit the Sun is actually slightly more than that. As a result, an extra day, February 29, is included in some years to correct for this difference. Such years are referred to as leap years. The rules for determining whether or not a year is a leap year follow:
• Any year that is divisible by 400 is a leap year.
• Of the remaining years, any year that is divisible by 100 is not a leap year.
• Of the remaining years, any year that is divisible by 4 is a leap year.
• All other years are not leap years.
Write a program that reads a year from the user and displays a message indicating whether or not it is a leap year.
Sample Input 1
1900
Sample Output 1
1900 is not a leap year.
Sample Input 2
2000
Sample Output 2
30°C Partly cloudy
Search
ENG IN
20:20 19-06-2024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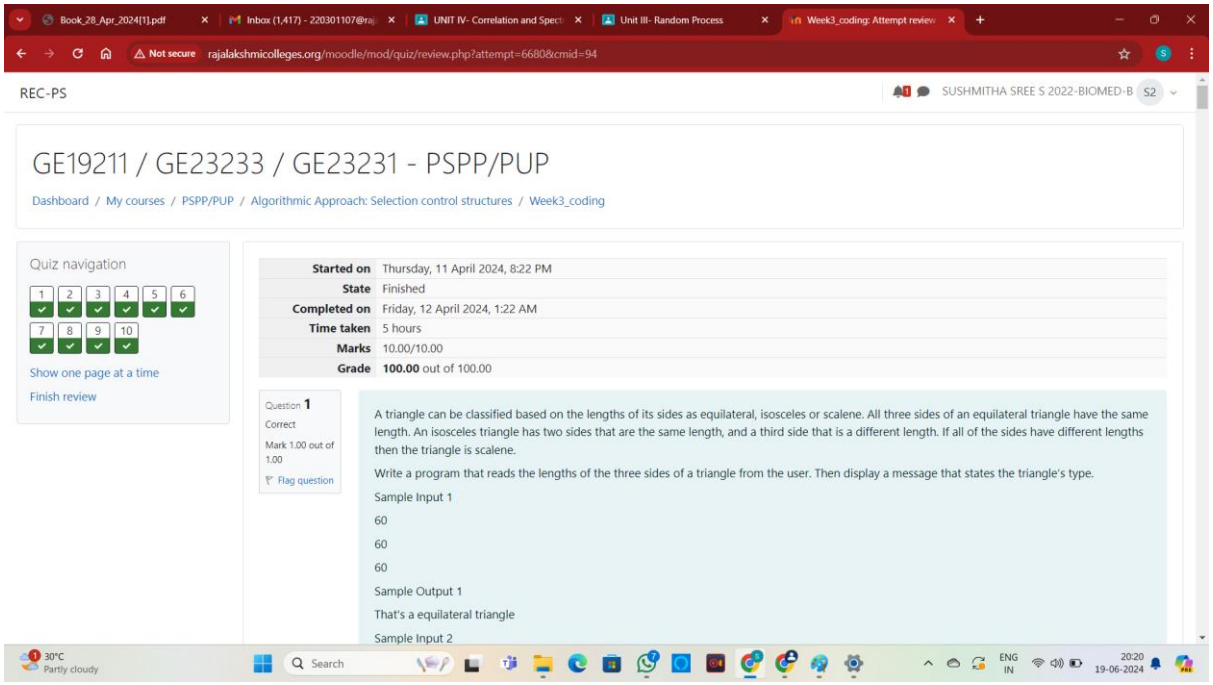
SUSHMITHA SREE S 2022-BIOMED-B
Answer: (penalty regime: 0 %)
def triangle_type(side1,side2,side3):
if side1 ==side2 ==side3:
return "equilateral"
elif side1 ==side2 or side1 ==side3 or side2 ==side3:
return 'isosceles'
else:
return "scalene"
def main():
side1=float(input())
side2=float(input())
side3=float(input())
triangle=triangle_type(side1,side2,side3)
print("That's a",triangle,"triangle")
if __name__ == '__main__':
main()
Input | Expected | Got
60 60 60 | That's a equilateral triangle | That's a equilateral triangle
40 40 80 | That's a isosceles triangle | That's a isosceles triangle
30°C Partly cloudy
Search
ENG IN
20:20 19-06-2024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REC-PS
SUSHMITHA SREE S 2022-BIOMED-B
GE19211 / GE23233 / GE23231 - PSPP/PUP
Dashboard / My courses / PSPP/PUP / Algorithmic Approach: Selection control structures / Week3_coding
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Show one page at a time
Finish review
Started on Thursday, 11 April 2024, 8:22 PM
State Finished
Completed on Friday, 12 April 2024, 1:22 AM
Time taken 5 hours
Marks 10.00/10.00
Grade 100.00 out of 100.00
Question 1
Correct
Mark 1.00 out of 1.00
Flag question
A triangle can be classified based on the lengths of its sides as equilateral, isosceles or scalene. All three sides of an equilateral triangle have the same length. An isosceles triangle has two sides that are the same length, and a third side that is a different length. If all of the sides have different lengths then the triangle is scalene.
Write a program that reads the lengths of the three sides of a triangle from the user. Then display a message that states the triangle's type.
Sample Input 1
60
60
60
Sample Output 1
That's a equilateral triangle
Sample Input 2
30°C
Partly cloudy
Search
ENG
IN
20:20
19-06-2024