CS23336-Introduction to Python Programming

Started on Wednesday, 28 August 2024, 2:19 PM

State Finished

Completed on Wednesday, 28 August 2024, 2:50 PM

Time taken 31 mins 9 secs **Marks** 5.00/5.00

Grade 100.00 out of 100.00

Question 1

Correct
Mark 1.00 out of 1.00

Flag question

Question text

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:

_

Explanation:

We need only 4 coins of value 4 each

Example Input:

25

Output:

/

Explanation:

We need 6 coins of 4 value, and 1 coin of 1 value

Answer:(penalty regime: 0 %)

Feedback

Test Expected Got

```
print(coinChange(16)) 4
```

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Question 2

Correct

Mark 1.00 out of 1.00

Flag question

Question text

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 %)

```
1 - def checkUgly(n):
2 -
       if n \le 0:
3
         return"not ugly"
4 -
       for p in[2,3,5]:
5 ∞
          while n%p==0:
6
          n=n/p
       if n==1:
8
      return "ugly"
9 ...
       else:
10
       return "not ugly"
```

Feedback

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.

Question 3

Correct
Mark 1.00 out of 1.00
Flag question

Question text

Write a function that returns the value of a+aa+aaa+aaaa with a given digit as the value of a.

Suppose the following input is supplied to the program:

9

Then, the output should be:

9+99+999+9999=11106

Sample Input Format:

9

Sample Output format:

11106

For example:

Test Result

print(Summation(8)) 9872

Answer:(penalty regime: 0 %)

Test Expected Got print(Summation(8)) 9872 9872 print(Summation(10)) 10203040 10203040

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Question 4

Correct
Mark 1.00 out of 1.00
Flag question

Question text

An e-commerce company plans to give their customers a special discount for Christmas.

They are planning to offer a flat discount. The discount value is calculated as the sum of all the prime digits in the total bill amount.

Write an algorithm to find the discount value for the given total bill amount.

Constraints

1 <= orderValue< 10e100000

Input

The input consists of an integer orderValue, representing the total bill amount.

Output

Print an integer representing the discount value for the given total bill amount.

Example Input

578

Output

12

For example:

Test Result

print(christmasDiscount(578)) 12

Answer:(penalty regime: 0 %)

Feedback

Test	Expected	Got
<pre>print(christmasDiscount(578))</pre>	12	12
Passed all tests!		
Correct Marks for this submission: 1	.00/1.00.	
Question 5		
Correct Mark 1.00 out of 1.00 Flag question		
Question text		
A strobogrammatic number i	is a numbe	r that looks the same when rotated 180 degrees (looked at upside down).
Write a program to determine	if a numbe	er is strobogrammatic. The number is represented as a string.
Example 1:		
Input:		
69		
Output:		
true		
Example 2:		
Input:		
88		
Output:		
true		
Example 3:		
Input:		
962		
Output:		
false		
Example 4:		
Input:		
1		
Output:		
true		
For example:		

Result

Test

print(Strobogrammatic(69)) true

print(Strobogrammatic(962)) false

Answer:(penalty regime: 0 %)

Reset answer

Feedback

Test Expected Got
print(Strobogrammatic(69)) true true
print(Strobogrammatic(88)) true true
print(Strobogrammatic(962)) false false

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Finish review

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