# **CS23336-Introduction to Python Programming**

**Started on** Sunday, 8 September 2024, 4:21 PM

**State** Finished

**Completed on** Wednesday, 11 September 2024, 1:29 PM

**Time taken** 2 days 21 hours

**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

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+999=11106

Sample Input Format:

9

Sample Output format:

11106

For example:

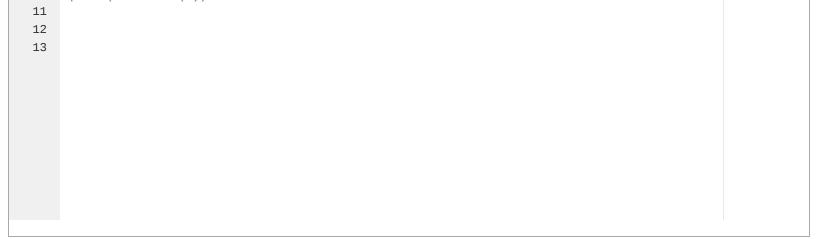
Test Result

print(Summation(8)) 9872

Answer:(penalty regime: 0 %)

```
Reset answer
```

```
1 - def Summation(n):
2
        a=str(n)
3
        b= a
 4
        c=a*2
5
        d=a*3
 6
 7
        x=int(b)+int(c)+int(d)+int(e)
8
        return x
10
    #print(Summation(8))
```



#### Feedback

lest	Expected	Got
<pre>print(Summation(8))</pre>	9872	9872
<pre>print(Summation(10))</pre>	10203040	10203040

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**

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 %)

```
Reset answer
```

```
1 - def christmasDiscount(n):
2
       n=str(n)
3
       j=⊙
4 .
       for i in n:
5 🕌
          if i in '2357':
6
                j+=int(i)
7
       return j
8
   #print(christmasDiscount(578))
9
```

## **Feedback**

Test Expected Got

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**

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 Answer:(penalty regime: 0 %) Reset answer 1 - def coinChange(n): 2 a=n/43 b=n%4 4 C=0 5 . **if** b==3: 6 c=b/37 . elif b==2: 8 c=b/29 ... elif b==1: 10 c=b/111 🕌 else: 12 C=0 13 x=int(a+c) 14 return x 15

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:

#### **Feedback**

## **Test** Expected Got

print(coinChange(16)) 4

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**

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

```
1 - def checkUgly(n):
 2 ...
         if n<=0:
 3
             return "not ugly"
 4 .
         for p in [2,3,5]:
5 ...
             while n%p==0:
 6
                  n=n//p
7 ...
         if n==1:
8
             return "ugly"
9 ...
10
             return "not ugly"
```



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 is a number that looks the same when rotated 180 degrees (looked at upside down).

Write a program to determine if a number is strobogrammatic. The number is represented as a string.

## Example 1:

**Input:** 

69

**Output:** 

true

Example 2:

**Input:** 

88

**Output:** 

true

Examp	le 3:				
Input:					
962					
Output	•				
false					
Examp	lo 4·				
	ic 4.				
Input:					
1					
Output	:				
true					
For exa	mple:				
	Test	Result			
bi Tiir (	Strobogrammatic(69	9)) true			
print(	Strobogrammatic(96	32)) false			
Answer	:(penalty regime: 0 %				
Answer Reset a	:(penalty regime: 0 %	<b>b</b> )			
Answer Reset a	:(penalty regime: 0 % answer  def Strobogrammati	<b>b</b> )			
Answer Reset a	:(penalty regime: 0 % answer  def Strobogrammati n=str(n)	<b>b</b> )			
Answer Reset a  1   2  3   4	c(penalty regime: 0 % answer def Strobogrammatinestr(n) for i in n: d=0	c(n):			
Answer Reset a  1  2 3  4 5  •	c(penalty regime: 0 % canswer def Strobogrammatinestr(n) for i in n: d=0 if i in '1	c(n):			
Answer  Reset a  1 - 2 3 - 4 5 - 6	c(penalty regime: 0 % canswer def Strobogrammation	c(n):			
Answer  Reset a  1 - 2 3 - 4 5 - 6 7 -	c(penalty regime: 0 % canswer def Strobogrammation	6) c(n): 6890':			
Answer  Reset a  1	c(penalty regime: 0 % canswer def Strobogrammatinestr(n) for i in n: d=0 if i in '1 d=1 if d==1: return "tr	6) c(n): 6890':			
Answer  Reset a  1	c(penalty regime: 0 % canswer def Strobogrammation	6890': ue"			
Answer  Reset a  1	considerate the constraint of	6890': ue"			
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Answer  Reset a  1	considerate the constraint of	6890': ue"			
Answer  Reset a  1 - 2 3 - 4 5 - 6 7 - 8 9 - 10	considerate the constraint of	6890': ue"			

Test	Expected	Got
<pre>print(Strobogrammatic(69))</pre>	true	true
<pre>print(Strobogrammatic(88))</pre>	true	true
<pre>print(Strobogrammatic(962))</pre>	false	false

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Finish review

Skip Quiz navigation

# Quiz navigation

Question 1 This page Question 2 This page Question 3 This page Question 4 This page Question 5 This page Show one page at a time Finish review