

# CS23336-Introduction to Python Programming

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**State** Finished

**Completed on** Monday, 9 September 2024, 9:58 AM

**Time taken** 4 days 20 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+9999=11106

Sample Input Format:

9

Sample Output format:

11106

For example:

Test	Result
<pre>print(Summation(8))</pre>	9872

Answer:(penalty regime: 0 %)

Reset answer

```
1 def Summation(n):
2     a=str(n)
3     sum = int(a)+int(a+a)+int(a+a+a)+int(a+a+a+a)
4     return sum
5
```

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 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     a=str(n)
3     sum=0
4     for i in a:
5         i=int(i)
6         if i in [2,3,5,7]:
7             sum+=i
8     return sum
9

```

[illegible]


```
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 4

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:

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     target=n
3     coins=[4,3,2,1]
4     count=0
5     for i in coins:
6         count+=target//i
7         target%=i
8     if target==0:
9         break
10    return count
11
```

Feedback


Test	Expected Got
<code>print(coinChange(16))</code> 4	4

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

Example 3:

Input:

962

Output:

false

Example 4:

Input:

1

Output:

true

For example:

Test	Result
<code>print(Strobogrammatic(69))</code>	true

```
print(Strobogrammatic(962)) false
```

Answer:(penalty regime: 0 %)

Reset answer

```
1 def Strobogrammatic(n):
2     mapping={'0':'0','1':'1','8':'8','9':'6','6':'9'}
3     a=str(n)
4     rotated=""
5     for i in reversed(a):
6         if i not in mapping:
7             return "false"
8         rotated+=mapping[i]
9     if rotated == a:
10        return "true"
```

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.

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