

Rajalakshmi Engineering College

Name: Phaveen S
Email: 240701383@rajalakshmi.edu.in
Roll no: 240701383
Phone: null
Branch: REC
Department: I CSE FD
Batch: 2028
Degree: B.E - CSE

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NeoColab_REC_CS23221_Python Programming

REC_Python_Week 2_CY

Attempt : 1
Total Mark : 40
Marks Obtained : 40

Section 1 : Coding

1. Problem Statement

Alex is practicing programming and is curious about prime and non-prime digits. He wants to write a program that calculates the sum of the non-prime digits in a given integer using loops.

Help Alex to complete his task.

Example:

Input:

845

output:

12

Explanation:

Digits: 8 (non-prime), 4 (non-prime), 5 (prime)

The sum of Non-Prime Digits: $8 + 4 = 12$

Output: 12

Input Format

The input consists of a single integer X.

Output Format

The output prints an integer representing the sum of non-prime digits in X.

Refer to the sample output for formatting specifications.

Sample Test Case

Input: 845

Output: 12

Answer

```
x=int(input())
```

```
def sumof(a):  
    prime={2,3,5,7}  
    total=0
```

```
    for digit in str(x):  
        if int(digit) not in prime:  
            total+=int(digit)  
    return total
```

```
print(sumof(x))
```

Status : Correct

Marks : 10/10

2. Problem Statement

Max is fascinated by prime numbers and the Fibonacci sequence. He wants to combine these two interests by creating a program that outputs the first n prime numbers within the Fibonacci sequence.

Your task is to help Max by writing a program that prints the first n prime numbers in the Fibonacci sequence using a while loop along with the break statement to achieve the desired functionality.

Input Format

The input consists of an integer n, representing the number of prime Fibonacci numbers to generate.

Output Format

The output displays space-separated first n prime numbers found in the Fibonacci sequence.

Refer to the sample output for the formatting specifications.

Sample Test Case

Input: 5

Output: 2 3 5 13 89

Answer

```
# You are using Python
import math
```

```
def isprime(num):
    if num < 2:
        return False
    for i in range(2,int(num**0.5)+1):
        if num%i==0:
            return False
    return True
```

```
def Fibo(nu):
    primefib=[]
    a,b=1,1
```

```
c=0
while len(primefib)<nu:
    if isprime(a):
        primefib.append(str(a))
        c+=1
        a,b=b,a+b
print(" ".join(primefib))

num=int(input().strip())
Fibo(num)
```

Status : Correct

Marks : 10/10

3. Problem Statement

Taylor is tasked with a mathematical challenge that requires finding the smallest positive number divisible by all integers from 1 to n.

Help Taylor to determine the smallest positive number that is divisible by all integers from 1 to n. Make sure to employ the break statement to ensure efficiency in the program.

Input Format

The input consists of a single integer, n.

Output Format

The output displays the smallest positive number that is divisible by all integers from 1 to n.

Refer to the sample output for the formatting specifications.

Sample Test Case

Input: 10

Output: 2520

Answer

```
# You are using Python
import math
n=int(input())
s=1
for i in range(2,n+1):
    s=(s*i)//math.gcd(s,i)
    if s==0:
        break
print(s)
```

Status : Correct

Marks : 10/10

4. Problem Statement

Students are allowed to work on our computer center machines only after entering the correct secret code. If the code is correct, the message "Logged In" is displayed. They are not allowed to log in to the machine until they enter the correct secret code.

Write a program to allow the student to work only if he/she enters the correct secret code.

Note: Here, secret code means the last three digits should be divisible by the first digit of the number.

Input Format

The input consists of an integer n, which represents the secret code.

Output Format

The output displays either "Logged In" or "Incorrect code" based on the given condition.

Refer to the sample output for the formatting specifications.

Sample Test Case

Input: 2345

Output: Incorrect code

Answer

You are using Python

```
n=int(input())
```

```
m=str(n)
```

```
f=int(m[0])
```

```
l=int(m[-3:])
```

```
if(l%f==0):
```

```
    print("Logged In")
```

```
else:
```

```
    print("Incorrect code")
```

Status : Correct

Marks : 10/10