1. **Palindrome - In Range**

Write a program to input two integers, which corresponds to the lower limit and upper limit respectively, and find the sum of all palindrome numbers present in the range including the two numbers. Print the sum.

Include a class **UserMainCode** with a static method **addPalindromes**which accepts two integers. The return type (Integer) should return the sum if the palindromes are present, else return 0.

Create a Class Main which would be used to accept two integer and call the static method present in UserMainCode.

Note1 : A palindrome number is a number which remains same after reversing its digits.

Note2 : A single digit number is not considered as palindrome.

**Input and Output Format:**

Input consists of 2 integers, which corresponds to the lower limit and upper limit respectively.

Output consists of an Integer (sum of palindromes).

Refer sample output for formatting specifications.

**Sample Input :**

130

150

**Sample Output :**

272

**(131+141 = 272)**

**2 .Fibonacci Sum**

Write a program to read an integer n, generate fibonacci series and calculate the sum of first n numbers in the series. Print the sum.

Include a class **UserMainCode** with a static method **getSumOfNfibos**which accepts an integer n. The return type (Integer) should return the sum of n fibonacci numbers.

Create a Class Main which would be used to accept an integer and call the static method present in UserMainCode.

**Note:**First two numbers in a Fibonacci series are 0, 1 and all other subsequent numbers are sum of its previous two numbers. Example - 0, 1, 1, 2, 3, 5...

**Input and Output Format:**

Input consists of an integer, which corresponds to n.

Output consists of an Integer (sum of fibonacci numbers).

Refer sample output for formatting specifications.

**Sample Input :**

5

**Sample Output :**

7

**[0 + 1 + 1 + 2 + 3 = 7]**

1. **Sum Non Prime Numbers**

Write a program to calculate the sum of all the non prime positive numbers less than or equal to the given number.

Note: prime is a natural number greater than 1 that has no positive divisors other than 1 and itself

Example:

input = 9

Prime numbers = 2,3,5 and 7

output = 1+4+6+8+9=28

Include a class **UserMainCode** with a static method “**addNumbers**” that accepts an integer arguement and returns an integer.

Create a class **Main** which would get an integer as input and call the static method **validateNumber** present in the UserMainCode.

**Input and Output Format:**

Input consists of an integer.

Output consists of an integer.

**Sample Input:**

9

**Sample Output:**

28

1. **Sum Squares of Digits**

Write a program that accepts a positive number as input and calculates the sum of squares of individual digits of the given number.

Include a class **UserMainCode** with a static method “**getSumOfSquaresOfDigits**” that accepts an integer argument and returns an integer.

Create a class **Main** which would get an integer as input and call the static method **getSumOfSquaresOfDigits** present in the UserMainCode.

**Input and Output Format:**

Input consists of an integer.

Output consists of an integer.

**Sample Input:**

321

**Sample Output:**

14

1. **Programming Logic**

Write a Program that accepts three integer values (a,b,c) and returns their sum. However, if one of the values is 13 then it does not count towards the sum and the next number also does not count. So for example, if b is 13, then both b and c do not count.  
  
Include a class UserMainCode with a static method **getLuckySum** which accepts three integers. The return type is integer representing the sum.  
  
Create a Class Main which would be used to accept the input integers and call the static method present in UserMainCode.  
  
**Input and Output Format:**  
  
Input consists of three integers.  
  
Output consists of a single integer.  
  
Refer sample output for formatting specifications.  
  
**Sample Input 1:**  
1  
2  
3  
  
**Sample Output 1:**  
6  
  
  
**Sample Input 2:**  
1  
2  
13  
  
**Sample Output 2:**  
3  
  
  
**Sample Input 3:**  
13  
3  
8  
  
**Sample Output 3:**  
8