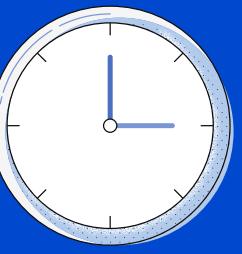


Java Loops Homework-8



TASK-1

Description

Write a program in Java to find the sum of the series $1 + 11 + 111 + 1111 + \dots n$ terms.

Test Data :

Input the number of terms : 5

Expected Output :

$1 + 11 + 111 + 1111 + 11111$

The Sum is : 12345



TASK-2

Description

Write a Java program to find the perfect numbers within a given number of range.

Test Data :

Input the starting range or number : 1

Input the ending range of number : 50

Expected Output :

The Perfect numbers within the given range : 6 28

NOTE: you need to use the nested loop.



TASK-3

Description

Write a Java program to check whether a given number is an armstrong number or not.

Test Data :Input a number: 153

Expected Output :153 is an Armstrong number.

NOTE:

An Armstrong number, also known as narcissistic number, is a number that is equal to the sum of the cubes of its own digits. For example, 370 is an Armstrong number since $370 = 3*3*3 + 7*7*7 + 0*0*0$



TASK-4

Description

Write a program in Java to find the prime numbers within a range of numbers.

Test Data :Input starting number of range: 1

Input ending number of range : 50

Expected Output :

The prime number between 1 and 50 are :

2 3 5 7 11 13 17 19 23 29 31 37 41 43 47

NOTE: you need to use the nested loop.



TASK-5

Description

Write a program in Java to display any number in reverse order.

Test Data :

Input a number: 12345 (it can be any number like 5 digits or 6 digits etc)

Expected Output :

The number in reverse order is: 54321



TASK-6

Description

Write a program in Java to check whether a String is a palindrome or not.

Test Data :

Input a number: Civic

Expected Output :

Civic is palindrome

NOTE:

A string is said to be a palindrome if the string read from left to right is equal to the string read from right to left. For example, ignoring the difference between uppercase and lowercase letters, the string "iTopiNonAvevanoNipoti" is a palindrome,



TASK-7

Description

13. Write a program in Java to make such a pattern like a pyramid with numbers increased by 1. For this task ask the user to enter a number of the line.

Example:

Please enter line number:

4

Expected output:

1

2 3

4 5 6

7 8 9 10

NOTE: You need to use the nested loop

