

PRACTICE QUESTIONS – FOR LOOP

1. Write a program to display even numbers from 1-50 in reverse order.
2. Write a program to display all numbers from m to n that are divisible by 3 and 5.
3. Write a program to display the multiplication table of a number.
4. Write a program to find the sum of the following series:
 - i. $1^2 + 2^2 + 3^2 + \dots n$ terms
 - ii. $1^2 + 2^3 + 3^4 + \dots n$ terms
 - iii. $1 + 3^3 + 5^5 + 7^7 + \dots n$ terms
5. Write a program to read 'n' numbers from the user and to find the sum and the average of the numbers.

NESTED LOOPS

6. Write a program to display all perfect numbers in the range m to n.
7. Find the sum of the following series:
 $1 + (1 + 3) + (1+3+5) + (1+3+5+7) + \dots n$ terms
8. Find the sum of the following series:

i. $1 - \frac{x^2}{2!} + \frac{x^4}{4!} + \dots n$ terms

ii. $x - \frac{x^3}{2!} + \frac{x^5}{3!} - \dots n$ terms

9. Write a program to display the following:

i.	7 5 3 1	ii.	4 4 4 4	iii.	1 2 3 4
	5 3 1		3 3 3		2 3 4
	3 1		2 2		3 4
	1		1		4