

## 1- Swap Two Numbers

How to Swap Two Numbers

• Input: 5 6

Output: 6 5

#### 2- Sum From N to M

Write a program that allow user to insert two integers N and M and print the summation of all numbers between N and M.

#### 3- N Divisors

Given a number N.

Print all the divisors of N in ascending order.

## 4- Digits

Given a number N.

Print the digits of that number from right to left separated by space.

#### 5- Count Steps

- Enter Number and Count the number of steps require to make the Number equal to Zero.
  - > if Number is Odd decrease one from it
  - ➤ If Number is Even divide it by 2

• Input : 15

• Output : 7

#### 6- Sum Of Series

Enter Number N and Find the sum of the series 1 +11 + 111 + 1111 + ...
N terms

Input: 5

Output:

1 + 11 + 111 + 1111 + 11111

The sum of the series = 12345

## 7- Frequency Array

- Write a program to count the frequency of each element of an array.
- ∘ Input: 25 12 43 25 10
- Output:

The frequency of all elements of an array:

25 occurs 2 times

12 occurs 1 times

43 occurs 1 times

## 8- Diagonals of Matrix 2D

of Matrix 2D (الاقطار) of Matrix 2D

Input: 1 2 34 5 6

789

o Output: 1 3 5 7 9

# 9- Second Smallest Element in an Array

Write a program to find the second smallest element in an array.

o Input: 57218

∘ Output : 2

#### 10-4 Functions

Create a program with 4 functions:

multiplication, division, summation, Subtraction,

Have the user to choose which operation to perform, and ask him if he wants to repeat the program, if so, let him choose an operation from the start.

## 11- Anagram

Write a program to check whether two given strings are an anagram

Input the first String : spare
Input the second String : pears

Expected Output: spare and pears are Anagram