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**Exp. No.: 1 Date: 31.01.2025**

**DEVELOP PYTHON PROGRAMS USING SIMPLE INPUT/OUTPUT OPERATIONS**

**1.1** – Printing your Name

Aim:

Write a Python Program to print your name

Source Code:



**Output:**

****

**Result:**

The Python Program to print your name has been successfully written and executed.

**1.2** – Printing your Age Next Year

Aim:

Write a Python Program to print your age next year

Source Code:



**Output:**

****

**Result:**

The Python Program to print your age next year has been successfully written and executed.

**Exp. No.: 2 Date: 31.01.2025**

**DEVELOP PROGRAMS USING OPERATORS AND EXPRESSIONS**

**2.1** – Convert Celsius to Fahrenheit

Aim:

Write a Python Program to convert Celsius to Fahrenheit.

Source Code:



**Output:**

****

**Result:**

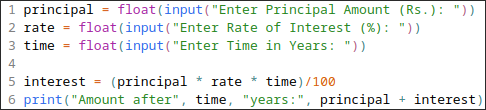
The Python Program to convert Celsius to Fahrenheit has been successfully written and executed.

**2.2** – Find Simple Interest

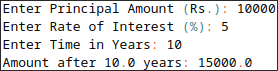
Aim:

Write a Python Program to Find Simple Interest.

Source Code:



**Output:**

****

**Result:**

The Python Program to Find Simple Interest has been successfully written and executed.

**Exp. No.: 3 Date: 07.02.2025**

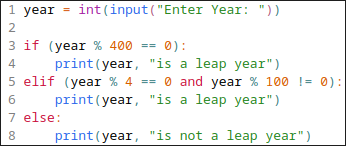
**WRITE PYTHON PROGRAMS USING CONTROL STATEMENTS**

**3.1** – Leap Year or Not

Aim:

Write a Python Program to Check Whether the Year is Leap Year or Not.

Source Code:



**Output:**

****

**Result:**

The Python Program to Check Whether the Year is Leap Year or Not has been successfully written and executed.

**3.2** – Day of the Week

Aim:

Write a Python Program to Find the Day of the Week.

Source Code:



**Output:**

****

**Result:**

The Python Program to Find the Day of the Week has been successfully written and executed.

**Exp. No.: 4 Date: 07.02.2025**

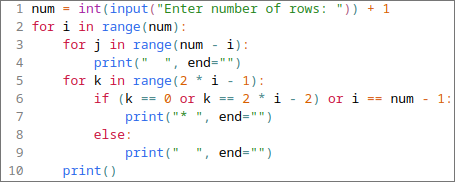
**PROGRAMS USING FOR, WHILE, DO-WHILE LOOPS AND NESTED LOOPS**

**4.1** – Print A Hollow Star Pyramid

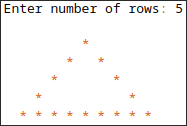
Aim:

Write a Python Program to Print a Hollow Star Pyramid.

Source Code:



**Output:**

****

**Result:**

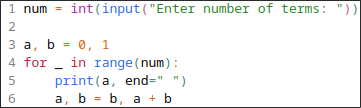
The Python Program to Print a Hollow Star Pyramid has been successfully written and executed.

**4.2** – Fibonacci Series

Aim:

Write a Python Program to print the Fibonacci Series.

Source Code:



**Output:**

****

**Result:**

The Python Program to print the Fibonacci Series has been successfully written and executed.

**Exp. No.: 5 Date: 14.02.2025**

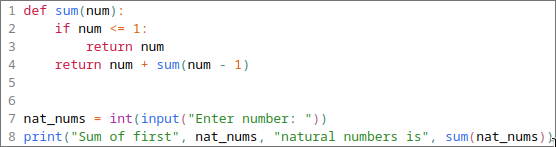
**DEVELOP PYTHON PROGRAMS USING SIMPLE FUNCTIONS AND RECURSION**

**5.1** – Sum of first N Natural Numbers

Aim:

Write a Python Program to find the sum of first N Natural Numbers.

Source Code:



**Output:**

****

**Result:**

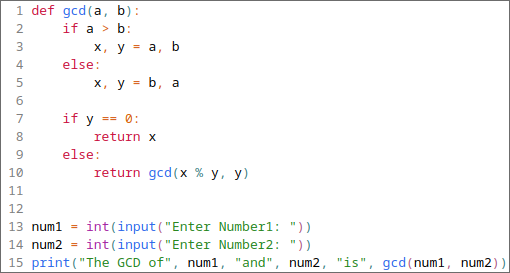
The Python Program to sum of first N Natural Numbers has been successfully written and executed.

**5.2** – G.C.D. of Two Numbers

Aim:

Write a Python Program to find G.C.D. of Two Numbers.

Source Code:



**Output:**

****

**Result:**

The Python Program to find G.C.D. of Two Numbers has been successfully written and executed.

**Exp. No.: 6 Date: 14.02.2025**

**WRITE PYTHON PROGRAMS FOR OPERATING ON STRINGS AND STRING HANDLING FUNCTIONS**

**6.1** – Count of different characters in a string

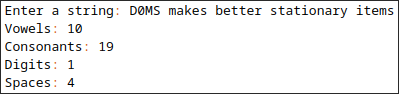
Aim:

Write a Python Program to count different characters in a string.

Source Code:



**Output:**

****

**Result:**

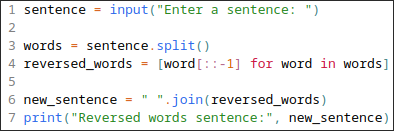
The Python Program to count different characters in a string has been successfully written and executed.

**6.2** – Reversing each word in a sentence

Aim:

Write a Python Program to reverse each word in a sentence.

Source Code:



**Output:**

****

**Result:**

The Python Program to reverse each word in a sentence has been successfully written and executed.

**Exp. No.: 7 Date: 28.02.2025**

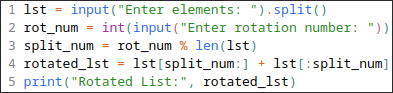
**DEVELOP PYTHON PROGRAMS USING LISTS, NESTED LISTS, AND LIST COMPREHENSIONS**

**7.1** – Rotating a list

Aim:

Write a Python Program to rotate a list.

Source Code:



**Output:**

****

**Result:**

The Python Program to rotate a list has been successfully written and executed.

**7.2** – Filtering a list

Aim:

Write a Python Program to filter the words containing the letter ‘a’ from the list.

Source Code:



**Output:**

****

**Result:**

The Python Program to filter the words containing the letter ‘a’ from the list has been successfully written and executed.

**Exp. No.: 8 Date: 14.03.2025**

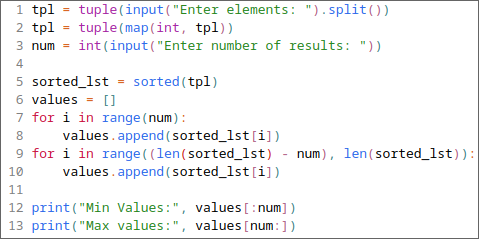
**DEVELOP PYTHON PROGRAMS USING TUPLES, NESTED TUPLES, AND TUPLE COMPREHENSION**

**8.1** – N number of minimum and maximum values

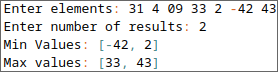
Aim:

Write a Python Program to find N number of minimum and maximum values.

Source Code:



**Output:**

****

**Result:**

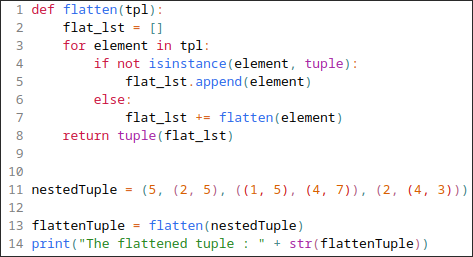
The Python Program to find the N number of minimum and maximum values has been successfully written and executed.

**8.2** – Flattening a nested tuple

Aim:

Write a Python Program to flatten a nested tuple.

Source Code:



**Output:**

****

**Result:**

The Python Program to flatten a nested tuple has been successfully written and executed.

**Exp. No.: 9 Date: 21.03.2025**

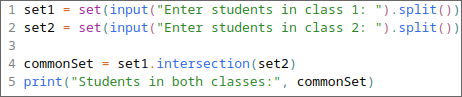
**WRITE PYTHON PROGRAMS CREATING SETS AND PERFORMING SET OPERATIONS**

**10.1** – Common Students

Aim:

Write a Python Program to find the common students in class 1 and 2.

Source Code:



**Output:**

****

**Result:**

The Python Program to find the common students in class 1 and 2 has been successfully written and executed.

**9.2** – Unique Elements

Aim:

Write a Python Program to find the unique elements in a list.

Source Code:



**Output:**

****

**Result:**

The Python Program to find the unique elements in a list has been successfully written and executed.

**Exp. No.: 10 Date: 04.04.2025**

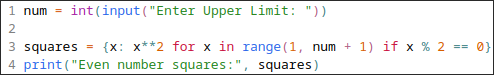
**DEVELOP PYTHON PROGRAMS USING DICTIONARY, NESTED DICTIONARY, AND DICTIONARY COMPREHENSION**

**10.1** – Even Squares

Aim:

Write a Python Program to store the even squares in a dictionary.

Source Code:



**Output:**

****

**Result:**

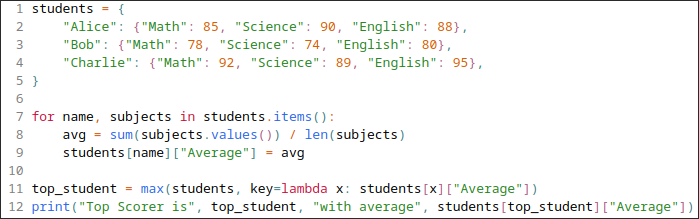
The Python Program to store the even squares in a dictionary has been successfully written and executed.

**11.2** – Top Student by Average

Aim:

Write a Python Program to find the top student by average.

Source Code:



**Output:**

****

**Result:**

The Python Program to find the top student by average has been successfully written and executed.

**Exp. No.: 11 Date: 11.04.2025**

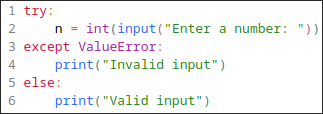
**DESIGN PYTHON PROGRAMS TO HANDLE ERRORS AND EXCEPTIONS**

**11.1** – Valid Input

Aim:

Write a Python Program to check if given input is valid or not.

Source Code:



**Output:**

** **

**Result:**

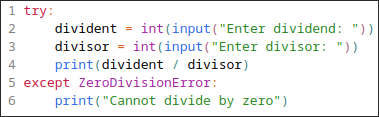
The Python Program to check if given input is valid or not has been successfully written and executed.

**11.2** – Division of two numbers

Aim:

Write a Python Program to divide two numbers with error handling.

Source Code:



**Output:**

****

**Result:**

The Python Program to divide two numbers with error handling has been successfully written and executed.

**Exp. No.: 12 Date: 11.04.2025**

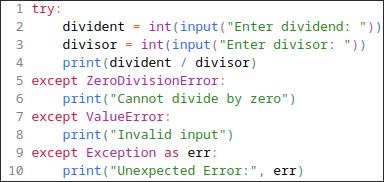
**DESIGN PYTHON PROGRAMS WITH MULTIPLE HANDLERS FOR EXCEPTIONS**

**12.1** – Division of two numbers

Aim:

Write a Python Program to divide two numbers with multiple exception handlers.

Source Code:



**Output:**

****

**Result:**

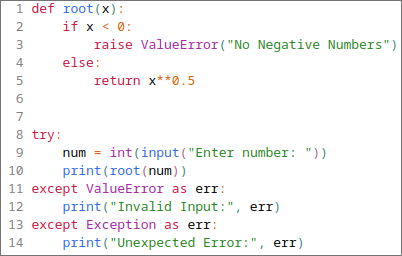
The Python Program to divide two numbers with multiple exception handlers has been successfully written and executed.

**12.2** – Square root of number

Aim:

Write a Python Program to find the square root of a number with multiple exception handlers.

Source Code:



**Output:**

** **

**Result:**

The Python Program to find the square root of a number with multiple exception handlers has been successfully written and executed.

**Exp. No.: 13 Date: 25.04.2025**

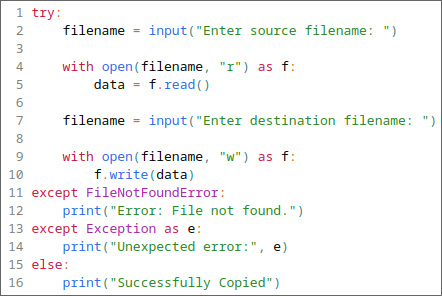
**WRITE PYTHON PROGRAMS TO READ, CREATE, AND UPDATE TEXT FILES**

**13.1** – Copy one File into Another

Aim:

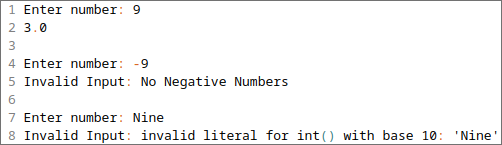
Write a Python Program to Copy one File into Another.

Source Code:



Input:

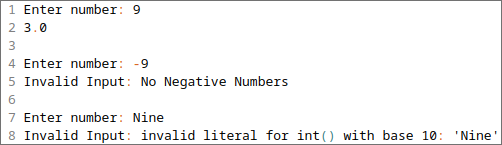
12.2.txt:



**Output:**

****

dest.txt:

****

**Result:**

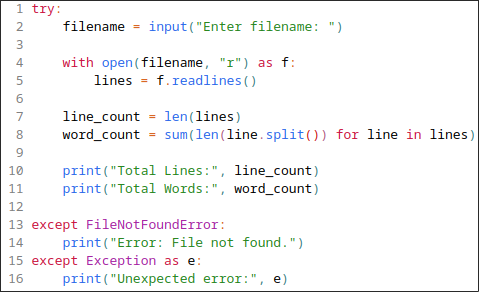
The Python Program to Copy one File into Another has been successfully written and executed.

**13.2** – Count of Lines and Words in a File

Aim:

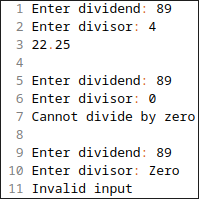
Write a Python Program to count the number of Lines and Words in a File.

Source Code:



Input:

12.1.txt:



**Output:**

****

**Result:**

The Python Program to count the number of Lines and Words in a File has been successfully written and executed.