TEST

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Batch Name: Python A8 Date: 18 feb 2025

Q1.Write a Python program to print hollow right angle triangle

1

23

4 5

6 7

89101112

Code:-

num=1

rows=5

for i in range(1, rows + 1):

for j in range(1, i + 1):

if j == 1 or j == i or i == rows:

print(num, end=" ")

else:

print(" ", end=" ")

num += 1

print()

Q2 Write a Python Program to Print all Prime Numbers in an Interval of 1-11.

Output => 2,3,5,7,11

Code:-

for i in range(1, 12):

    if i > 1:

        for j in range(2, i):

            if (i % j == 0):

                break

        else:

            print(i, end=", ")

Q3. Write a program to check whether any number is Narcissistic number or not

Note:Narcissistic Number is a number that is the sum of its own digits each raised to the power of the number of

digits ( Hint: Similar to kind of armstrong number)

Do check 1634 => number is raised to power of 4 because there are total 4 digit in 1634

Input : 153 Output : Narcissistic Number Explanation: 1^3+5^3+3^3=153

Input : 1634 Output : Narcissistic Number Explanation: 1^4+6^4+3^4+4^4=1634

Q4. Write a Python Program to Find the Factorial of a Number

Input: 4

Output :24

Code:-

num = 4

if (num < 0):

    print("Factorial is not")

elif (num == 0 or num == 1):

    print("Factorial of", num, "is 1")

else:

    a = 1

    for i in range(2, num + 1):

        a\*= i

    print("Factorial of", num, "is", a)

Input: 5

Output: 120

Code:-

num = 5

if (num < 0):

    print("Factorial is not")

elif (num == 0 or num == 1):

    print("Factorial of", num, "is 1")

else:

    a = 1

    for i in range(2, num + 1):

        a\*= i

    print("Factorial of", num, "is", a)