PYTHON DEVELOPER

Task 1:

1. The sum of two Numbers.

-> num1=1.5

num2=7.5

sum=num1+num2;

print ('the sum of {0} and {1} is {2}', format (num1, num2, sum))

Output : The sum of 1.5 and 7.5 is 9.

2. Odd or even.

-> num = int (input ("Enter a number : ”))

If (num%2) ==0;

print ("{0} is even “, format(num))

else :

print("{0}”, format(num))

Output: enter a number : 22

22 is even number.

3.Factorial Calculation.

-> num=7

num=int(input(“Enter a number:”))

factorial =1

If num<0:

Print (“sorry, factorial does not exist for negative numbers”)

else if num==0:

Print (“the factorial of 0 is 1”)

else:

for i in range (1, num+1);

factorial =factorial*i

Print (“The factorial of ”, num, “is”,factorial)

Output : the factorial of 7 is 5040.

4. Fibonacci Sequence.

-> nterms =int (input (how many terms? “))

n1 ,n2=0,1

Count = 0

If nterms <= 0:

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print(please enter a positive integer “)

elif nterms == 1:

print (“Fibonacci sequence upto “,nterms,”:”)

print (n1)

else

Print (“Fibonacci sequence:”)

While count < nterms :

Print(n1)

nth =n1 + n2;

n1=n2

n2=nth

Count += 1
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Output: How many terms ?

0

1

1

2

3

5

5. Reverse a string.

-> s = “GeeksforGeeks”

rev = “”

for ch in s:

rev = ch + rev

print(rev)

Output : skeeGrofskeeG.

6. Palindrome check.

-> my_str = “aIbohpobia’

my_str = my_str.casefold()

rev_str =reversed (my_str)

If list(my_str) == list(rev_str):

Print(“the string is a palindrome:”)

else:

Print(“the string is not a palindrome:”)

Output: the string is a palindrome.

7. Leap your check.

-> def is_ leap_year(year):

If year % 4 ==0 and (year % 100 ! =0 or year % 400 == 0):

Return True

else:

Return false

Example:

Year = 2024

Print(f”{year} is a leap year: { is_leap_year(year)}”)

Output:2024 is a leap year.

8.Armstrong number.

-> def is_armstrong(n):

num_str = str(n)

num_digits len (num _str)

Return n == sum(int(digit) **num_digits for digit in num_str)

Example

Print(is_armstrong(153))

Output: True.