1. Write a Python program to your name, phone number, and email 10 times.
2. name="Shubhasmita"
3. phone=1111111111
4. email="shubhasmitadash23@gmail.com"
5. for i in range(1,11):
6. print(name,phone,email)

Shubhasmita 1111111111 shubhasmitadash23@gmail.com

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Shubhasmita 1111111111 [shubhasmitadash23@gmail.com](mailto:shubhasmitadash23@gmail.com)

2. Write a Python program to print the multiplication table of a given number

num=int(input("enter the number:"))

for i in range(1, 11):

    print(num, 'x', i, '=', num\*i)

enter the number:5

5 x 1 = 5

5 x 2 = 10

5 x 3 = 15

5 x 4 = 20

5 x 5 = 25

5 x 6 = 30

5 x 7 = 35

5 x 8 = 40

5 x 9 = 45

5 x 10 = 50

3. Write a Python program to compute the sum of squares of first n natural numbers(12+ 2 2 + 32 + ... + n 2 ) using loop.

import math

n=int(input("Enter the n natural numbers:"))

sum=0

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

    sum=math.pow(i,2)+sum

print("Sum of the n square numbers is",sum)

Enter the n natural numbers:4

Sum of the n square numbers is 30.0

4. Write a Python program to compute the sum 1/1+2/3+3/5+4/7+........nth term

n=int(input("Enter the nth term:"))

sum=0

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

    for j in range(1, n+1, 2):

        sum=(i/j)+sum

print("Sum of the series is",sum)

Enter the nth term:5

Sum of the series is 23.000000000000004

5. Write a Python program to compute the sum of digits of a given number.

num=int(input("enter the number:"))

sum=0

while(num!=0):

    rem=num%10

    sum=sum+rem

    num=num//10

print("Sum of digits is:",sum)

enter the number:254

Sum of digits is: 11

6. Write a Python program to check whether the given number is a palindrome or not.

num=int(input("enter the number: "))

rev=0

num1=num

while(num!=0):

    rem=num%10

    rev=rev\*10+rem

    num=num//10

if num1==rev:

    print("palindrome")

else:

    print("not palindrome")

enter the number: 252

palindrome

1. Write a Program to check whether the given number is an Armstrong number or not. (e.g. 153 is Armstrong’s number, as 13 + 53 + 33 = 153.)
2. num=int(input("enter the number:"))
3. sum=0
4. num1=num
5. while(num!=0):
6. rem=num%10
7. sum=sum+pow(rem,3)
8. num=num//10
9. if num1==sum:
10. print("armstrong number")
11. else:
12. print("not armstrong number")

enter the number:245

not armstrong number

8. Write a Python program to compute the factorial of a number.

num=int(input("enter the number:"))

fact=1

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

    fact=fact\*i

print("factorial of",num,"is",fact)

enter the number:15

factorial of 15 is 1307674368000

9. Write a Python program to print prime numbers between a given range.

lower=int(input("enter the lower range:"))

upper=int(input("enter the upper range:"))

for num in range(lower,upper+1):

    if num>1:

        for i in range(2,num):

            if num%i==0:

                break

        else:

            print(num)

enter the lower range:5

enter the upper range:25

5

7

11

13

17

19

23

10. Write a Python program to print first n Fibonacci numbers.

n=int(input("enter the number of terms:"))

a=0

b=1

if n <= 0:

    print("Please enter a positive number of terms.")

else:

    print("Fibonacci sequence:")

    for i in range(n):

        print(a, *end*=" ")

        a, b = b, a + b

    print()

enter the number of terms:5

Fibonacci sequence:

0 1 1 2 3

11. Write a Python program to find the numbers, which are divisible by the sum of their digits. (e.g. 12) between 1 to 10000.

for i in range(1,10001):

    sum=0

    num=i

    while(num!=0):

        rem=num%10

        sum=sum+rem

        num=num//10

    if i%sum==0:

        print(i)

    else:

        continue

12. Write a Python program to find the nearest number to 1000, which is less than 1000, and divisible by 18 and 32.

for i in range(1000,0,-1):

    if i%18==0 and i%32==0:

        print(i)

        break

    else:

        continue

864

13. Write a Python program to check whether a given number is a perfect square or not.

import math

num=int(input("enter the number:"))

if math.sqrt(num)==int(math.sqrt(num)):

    print("perfect square")

else:

    print("not perfect square")

enter the number:64

perfect square

14. Write a Python program to print the “n th” digit of a number from the right. (e.g. in 18568, 6 is second from right)

num\_str=input("enter the number:")

n\_str=input("enter the nth digit from the right:")

try:

    n = int(n\_str)

    if not num\_str.isdigit():

        print("Error: The number must contain only digits.")

    elif n <= 0:

        print("Error: The position 'n' must be a positive number.")

    elif n > len(num\_str):

        print(f"Error: The number '{num\_str}' only has {len(num\_str)} digits. Cannot find the {n}th digit.")

    else:

        digit = num\_str[-n]

        print(f"The {n}th digit of {num\_str} from the right is: {digit}")

except ValueError:

    print("Invalid input for the position. Please enter a whole number.")

enter the number:1254783

enter the nth digit from the right:4

The 4th digit of 1254783 from the right is: 4

15. Write a Python program to check whether the digits of a given number are equal.

num=int(input("enter the number:"))

num1=num

count=0

while(num!=0):

    rem=num%10

    num=num//10

    count=count+1

num=num1

sum=0

while(num!=0):

    rem=num%10

    sum=sum+rem

    num=num//10

if sum%count==0:

    print("equal")

else:

    print("not equal")

enter the number:555

equal