

```
In [1]: #Display "Hello World" in your out
print("hello world")

hello world

In [56]: #Get the input from the user and p
a=int(input("enter the first numbe
b=int(input("enter the second numb
c=a+b
print("the sum is:",c)

enter the first number:7
enter the second number:4
the sum is: 11

In [4]: #convert the entered kilometres
a=int(input("enter the number of k
a=*0.621371
print("the number of metres is",a)

enter the number of kilometres:3
the number of metres is 1.86411300
00000001

In [6]: #check whether the given number is
a=int(input("enter the number :"))
if a > 0:
    print("positive number")
elif a < 0:
    print("negative number")
else:
    print("zero")

enter the number :4
positive number

In [7]: #verify that the given year is a l
year=int(input("enter the year:"))
if year/4 :
    print("it is a leap year")
else:
    print("it is not a leap year")

enter the year:2018
it is a leap year

In [11]: #display the prime numbers within
a=int(input("enter the min number:
b=int(input("enter the max number:
print("prime number between",a,"to
for num in range(a,b+1):
    for i in range(2,num):
        if(num%i==0) :
            break
        else:
            print(num)

enter the min number:2
enter the max number:7
prime number between 2 to 7 are
3
5
5
5
7
7
7
7

In [14]: #Fibonacci nmubers
a=0
b=1
n=int(input("Enter the range: "))
print("The fibonacci numbers are:
for x in range(1,n-1,1):
    sum=a+b
    print(sum)
    a=b
    b=sum

Enter the range: 10
The fibonacci numbers are:
1
2
3
5
8
13
21
34

In [2]: #check if the number is an Armstro
y=int(input("Enter your number:"))
sum=0
temp=y
d=temp%10
e=(temp//10)%10
f=int(temp/100)
sum=(d**3)+(e**3)+(f**3)
if sum==y:
    print("It is an armstrong number")
else:
    print("It is not an armstrong num

Enter your number:4
It is not an armstrong number

In [58]: #Find the Sum of natural numbers u
y=int(input("enter the sum for n t
sum=0
for x in range(1,y+1,1):
    sum+=x
print("sum of n terms",sum)

enter the sum for n th term: 5
sum of n terms 15

In [57]: #Write a function called show_star
def show_stars(rows):
    for i in range(1,rows+1):
        print(" "*i)
show_stars(int(input("Enter your n

Enter your number: 5
*
**
***
****
*****

In [15]: #Write a program to remove charact
def remove_chars(str, n):
    return str[n:]
my_string = input("Enter your stri
i=int(input("Enter the index numbe
new_string = remove_chars(my_strin
print(new_string)

Enter your string:ilaks
Enter the index number where u wan
t to remove: 3
ks

In [20]: #Iterate the given list of numbers
n=int(input("enter the range : "))
list=[]
for i in range (0,n):
    c=int(input("enter the elements :
list.append(c)
print("the numbers divisibl by 5 a
for i in list:
    if i%5==0:
        print(i)

enter the range : 5
enter the elements : 34
enter the elements : 78
enter the elements : 65
enter the elements : 45
enter the elements : 42
the numbers divisibl by 5 are :
65
45

In [21]: #Write a program to find how many
str=("Hi,This is my python assignm
substr="Hi"
count=str.count(substr)
print("The count of the substring

The count of the substring is : 2

In [25]: #Print the number pattern
n = 6
for number in range(n):
    for i in range(number):
        print(number, end=" ")
    print(" ")

1
2 2
3 3 3
4 4 4 4
5 5 5 5 5

In [27]: #Write a program to check if the g
num = input("Enter a number:")
if num == num[::-1]:
    print("Yes its a palindrome")
else:
    print("No, its not a palindrome")

Enter a number:282
Yes its a palindrome

In [28]: #Python program to interchange fir
my_list = [15,86,95,76,73,64]
print("Initial list: ")
print(my_list)
my_list[0], my_list[-1] = my_list[
print("Updated list after swapping
print(my_list)

Initial list:
[15, 86, 95, 76, 73, 64]
Updated list after swapping:
[64, 86, 95, 76, 73, 15]

In [29]: #Swapping of two numbers in a list
my_list = [58,75,69,37,25,589]
print("The initial list is:")
print(my_list)
i1 =int(input("Enter i1:"))
i2 =int(input("Enter i2:"))
temp = my_list[i1]
my_list[i1] = my_list[i2]
my_list[i2] = temp
print("The Updated list is:")
print(my_list)

The initial list is:
[58, 75, 69, 37, 25, 589]
Enter i1:4
Enter i2:2
The Updated list is:
[58, 75, 25, 37, 69, 589]

In [30]: #Python Ways to find length of lis
my_list = [100,200,300,400,500]
print("My list elements: ")
print(my_list)
length = len(my_list)
print("The total length of my list
print(length)

My list elements:
[100, 200, 300, 400, 500]
The total length of my list is:
5

In [31]: #Maximum of two numbers in Python
a=int(input("Enter the value of a:
b=int(input("Enter the value of b:
if(a>b):
    print ("a is greater")
else:
    print("b is greater")

Enter the value of a:4
Enter the value of b:8
b is greater

In [32]: #Minimum of two numbers in Python
a=int(input("Enter the value of a:
b=int(input("Enter the value of b:
if(a<b):
    print ("a is smaller")
else:
    print("b is smaller")

Enter the value of a:4
Enter the value of b:6
a is smaller

In [34]: #Python program to check whether t
my_string = input("Enter the strin
symmetrical = my_string == my_stri
palindrome = my_string == "".join(
if symmetrical:
    print("The string is symmetrical"
else:
    print("The string is not symmetri
if palindrome:
    print("The string is a palindrome
else:
    print("The string is not a palind

Enter the string:malayalam
The string is symmetrical
The string is a palindrome

In [35]: #Reverse words in a given String i
my_string = "hey ilaks"
print("My initial string is:")
print(my_string)
words = my_string.split()
words.reverse()
new_string = " ".join(words)
print("My reversed string is:")
print(new_string)

My initial string is:
hey ilaks
My reversed string is:
ilaks hey

In [36]: #Ways to remove i'th character fro
my_string = "Hello!"
index_to_remove =int(input("Enter
new_string = my_string[:index_to_r
print(new_string)

Enter the index number to be remov
ed:4
Hell!

In [37]: #Find length of a string in python
my_string = "hey ilaks"
string_length = len(my_string)
print("Length of my string is:")
print(string_length)

Length of my string is:
9

In [45]: #Python program to print even leng
print('enter a string')
n=input()
s=n.split(" ")
print("The even indexed strings ar
for i in s:
    #checking the length of words
    if len(i)%2==0:
        print(i)

enter a string
python program
The even indexed strings are:
python

In [48]: #Python program to Find the size o
import sys
# Define a tuple
my_tuple = ('ilaks',2003)
# Get the size of the tuple in byt
size = sys.getsizeof(my_tuple)
# Print the size in bytes
print(f"The size of the tuple is {

The size of the tuple is 56 bytes

In [51]: #Python - Maximum and Minimum K el
import heapq
def find_k_largest_smallest_elemen
# Find the k largest elements usi
largest_elements = heapq.nlargest

# Find the k smallest elements us
smallest_elements = heapq.nsmalle

return largest_elements, smallest
my_tuple = (10,20,30,40,50,60,70,8
k=int(input("Enter no. of elements
largest, smallest = find_k_largest
print(f"The {k} largest elements i
print(f"The {k} smallest elements

Enter no. of elements needed:3
The 3 largest elements in the tupl
e are: [100, 90, 80]
The 3 smallest elements in the tup
le are: [10, 20, 30]

In [52]: #Python - Sum of tuple elements
my_tuple=(20,40,50,60,80)
print("Tuple=",my_tuple)
sum_of_tuple = sum(my_tuple)
print("The sum of my tuple element

Tuple= (20, 40, 50, 60, 80)
The sum of my tuple elements is: 2
50

In [54]: #Python - Row-wise element Additio
matrix = ((1,2,3),(4,5,6),(7,8,9))
print("My row matrix:",matrix)
print("The sum of each row matrix
for row in matrix:
    row_sum = sum(row)
    print(row_sum)

My row matrix: ((1, 2, 3), (4, 5,
6), (7, 8, 9))
The sum of each row matrix is:
24

In [59]: #swap two variables without temp v
a=int(input("enter the first numbe
b=int(input("enter the second numb
print("before swapping",a,b)
a=a+b
b=a-b
a=a-b
print("after swapping",a,b)

enter the first number:5
enter the second number:4
before swapping 5 4
after swapping 4 5

In [ ]:
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