In [1]:
```
#1. Display "Hello World" in your output screen.
print("Hello World")
```

```
Hello World
```

In [1]:
```
#2. Get the ingur from the suer and perform additon of two numbers.
a=int(input("Enter the value of a:"))
b=int(input("Enter the value of b:"))
c=a+b
print(c)
```

```
Enter the value of a:67
Enter the value of b:78
145
```

In [2]:
```
#3. Swap two variables without temp variables.
a=int(input("Enter the value of a:"))
b=int(input("Enter the value of b:"))
a=a+b
b=a-b
a=a-b
print("The value of a is",a)
print("The value of b is",b)
```

```
Enter the value of a:67
Enter the value of b:89
The value of a is 89
The value of b is 67
```

In [3]:
```
#4. Convert the entered kilometres.
kilometre=int(input("Enter the kilometre:"))
confac=0.621371
a=kilometre*confac
print(a)
```

```
Enter the kilometre:89
55.382819
```

In [67]:
```
#5. Check whether the given number is positive,negative or zero.
a=int(input("Enter the value of a:"))
if a>0:
    print("positive")
elif a==0:
    print("zero")
else:
    print("negative")
```

```
Enter the value of a:34
positive
```

In [68]:
```
#6. Verify that the given year is a leap year.
year=int(input('Enter the year'))
if((year%4==0)and(year%100!=0)or(year%400==0)):
    print("Leap year")
else:
    print("Not a leap year")
```

```
Enter the year2005
Not a leap year
```

In [69]:
```
#7. Display the prime numbers within the given intervals.
lower_value = int(input ("Please, Enter the Lowest Range Value: "))
upper_value = int(input ("Please, Enter the Upper Range Value: "))

print ("The Prime Numbers in the range are: ")
for number in range (lower_value, upper_value + 1):
    if number > 1:
        for i in range (2, number):
            if (number % i) == 0:
                break
        else:
            print (number)
```

```
Please, Enter the Lowest Range Value: 34
Please, Enter the Upper Range Value: 57
The Prime Numbers in the range are:
37
41
43
47
53
```

In [70]:
```
#8. Display the Fibonacci sequence upto the n-th term.
num = int(input("Enter the number:"))
n1, n2 = 0, 1
print("Fibonacci Series:", n1, n2, end=" ")
for i in range(2, num):
    n3 = n1 + n2
    n1 = n2
    n2 = n3
    print(n3, end=" ")
print()
```

```
Enter the number:5
Fibonacci Series: 0 1 1 2 3
```

In [71]:
```
#9. Check if an number is armstrong or not.
num = int(input("Enter a number: "))



sum = 0


temp = num
while temp > 0:
   digit = temp % 10
   sum += digit ** 3
   temp //= 10


if num == sum:
   print(num,"is an Armstrong number")
else:
   print(num,"is not an armstrong number")
```

```
Enter a number: 234
234 is not an armstrong number
```

In [72]:
```
#10. Find the sum of natural numbers upto n-th term.
num = int(input("Enter the number:"))

if num < 0:
   print("Enter a positive number")
else:
   sum = 0
   while(num > 0):
      sum += num
      num -= 1
   print("The sum is", sum)
```

```
Enter the number:34
The sum is 595
```

In [73]:
```
#11. Write a function called as show star.

rows = int(input("Enter the number of rows:"))
for i in range(0, rows):
    for j in range(0, i + 1):
        print("*", end=' ')
    print("\n")
```

```
Enter the number of rows:5
*

* *

* * *

* * * *

* * * * *
```

In [4]:
```
#12. Write a program to remove characters from a string.
s=input("Enter any string: ")
n=int(input("Enter how much to remove:"))
b=len(s)
print(s[n:])
```

```
Enter any string: yellow
Enter how much to remove:2
llow
```

In [75]:
```
#13. Sum of natural numbers up to num

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

if num < 0:
   print("Enter a positive number")
else:
   sum = 0
   # use while loop to iterate until zero
   while(num > 0):
      sum += num
      num -= 1
   print("The sum is", sum)
```

```
Enter the number:16
The sum is 136
```

In [7]:
```
#14.write a program to find how many times substring "hi" appears in the given string
g=input("enter a sentence : ")
list=g.split(" ")
n=len(list)
c=0
for i in range (n):
    if list[i]=='hi':
        c+=1
if c!=0:
    print("'hi' is present {} times".format(c))
else:

    print("'hi' is not present")
```

```
enter a sentence : hi hi hi
'hi' is present 3 times
```

In [6]:
```
#15. print the pattern
rows = 6
for i in range(rows):
    for j in range(i):
        print(i, end=' ')
    print('')
```

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

In [78]:
```
#16.prg to check whether the given no. is palidrome or not
def isPalindrome(str):
    for i in range(0, int(len(str)/2)):
        if str[i] != str[len(str)-i-1]:
            return False
    return True
s = str(input("Enter the string:"))
ans = isPalindrome(s)

if (ans):
    print("Yes")
else:

    print("No")
```

```
Enter the string:malayalam
Yes
```

In [79]:
```
#17. python program to interchange first and last element
list1["India","Srilanka","Canada","France","America","Germany"]
print("Initial list")
print(list)
list1.remove('India')
list1.remove('Germany')
list1.insert(0,'Germany')
list1.insert(5,'India')
print("List after interchanging:")
print(list1)
```

```
Initial list
['India', 'Srilanka', 'Canada', 'France', 'America', 'Germany']
List after interchanging:
['Germany', 'Srilanka', 'Canada', 'France', 'America', 'India']
```

In [80]:
```
#18. python program to swap two numbers in a list
list=[0,1,2,3,4,5]
print("Initial list:")
print(list)
temp=list[2]
list[2]=list[3]
list[3]=temp
print("list after swapping:")
print(list)
```

```
Initial list:
[0, 1, 2, 3, 4, 5]
list after swapping:
[0, 1, 3, 2, 4, 5]
```

In [81]:
```
#19. Python ways to find the length of the list
li=[11,22,33,44,55,66]
n = len(li)
print("The length of list is: ", n)
```

```
The length of list is:  6
```

In [82]:
```
#20. Max of two numbers
a=int(input("enter the first number:"))
b=int(input("enter the second number:"))
if a>b:
    print("a is greater")
else:
    print("b is greater")
```

```
enter the first number:23
enter the second number:34
b is greater
```

In [83]:
```
#21. Min of two numbers
a=int(input("enter the first number:"))
b=int(input("enter the second number:"))
if a<b:
    print("a is smaller")
else:
    print("b is smaller")
```

```
enter the first number:34
enter the second number:45
a is smaller
```

In [8]:
```
#22.prg to find the given string is palidrome or symmentrical
val=input("Enter sting value: ")
print("palindrome checking:\n")
if val==val[::-1]:
    print("It is a palindrome")
else:
    print("It is not a palindrome")
print("symmentrical checking:\n")
l=len(val)
if val[half:]==val[:half]:
    print("It is symmentrical")
else:
    print("It is not symmentrical")
```

```
Enter sting value: malayalam
palindrome checking:

It is a palindrome
symmentrical checking:

It is not symmentrical
```

In [85]:
```
#23.reverse words in the given python program
def reverse(s):
    str = ""
    for i in s:
        str = i + str
    return str

s = "Geeksforgeeks"

print("The original string is : ", end="")
print(s)

print("The reversed string(using loops) is : ", end="")
print(reverse(s))
```

```
The original string is : Geeksforgeeks
The reversed string(using loops) is : skeegrofskeeG
```

In [10]:
```
 #24. Ways to remove i'th character from string in Python

name=input("enter the name : ")
i=int(input("enter pos u want to remove : "))
c=name[i]
name1=name.replace(c,'')
print(name1)

enter the name : amirtha
enter pos u want to remove : 0
mirth
```

In [87]:
```
#25.Find length of a string in python

str = "geeks for geeks"
print(len(str))
```

```
15
```

In [88]:
```
#26.Python program to print even length words in a string
m="This is a python language"
s=m.split(" ")
for i in s:

  if len(i)%2==0:
    print(i)
```

```
This
is
python
language
```

In [9]:
```
#27.python program to find the size of the tuple
a = ("geeks", "python", "tuple")
b = ("programs", "Coding")
print("Size of the tuple is", len(a))
print("Size of the tuple is", len(b))
```

```
Size of the tuple is 3
Size of the tuple is 2
```

In [4]:
```
#28. Python-Maximum and Minimum K elements in a tuple.
t=(1,2,3,4,5)
print("Maximum value= ",max(t))
print("Minimum value= ",min(t))
```

```
Maximum value=  5
Minimum value=  1
```

In [62]:
```
#29. Python-Sum of tuple elements.
t=(1,2,3,4,5)
print("Sum of elements in the tuple:",sum(t))
```

```
Sum of elements in the tuple: 15
```

In [61]:
```
#30. Python-Rowwise element addition in tuple.
tmat = ((1, 2, 3), (4, 5, 6), (7, 8, 9))
for row in tmat:
    s=sum(row)
    print("Row sum:",s)
```

```
Row sum: 6
Row sum: 15
Row sum: 24
```