In [1]:
```
#1.Display “Hello World” in your o
print("hello world")
```
```
hello world
```

In [2]:
```
#2.Get the input from the user and
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:5
enter the second number:8
the sum is: 13
```

In [3]:
```
#3.swap two variables without temp
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:8
enter the second number:9
before swapping 8 9
after swapping 9 8
```

In [4]:
```
#4.convert the entered kilometres
a=int(input("enter the number of k
a=a*0.621371
print("the number of metres is",a)
```
```
enter the number of kilometres:57
the number of metres is 35.418147
```

In [5]:
```
#5.check whether the given number
a=int(input("enter the number :"))
if a > 0:
 print("positive number")
elif a < 0:
 print("negative number")
else:
 print("zero")
```
```
enter the number :8
positive number
```

In [6]:
```
#6.verify that the given year is a
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:2005
it is a leap year
```

In [10]:
```
#7.display the prime numbers withi
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:4
prime number between 2 to 4 are
2
3
```

In [12]:
```
# 8. Fibbonacci 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 [14]:
```
# 9.check if the number is an Arms
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:2
It is not an armstrong number
```

In [15]:
```
# 10. Find the Sum of natural numb
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: 9
sum of n terms 45
```

In [28]:
```
# 11.Write a function called show_
for i in range(1, 6):
     print("*"*i)
```
```
*
**
***
****
*****
```

In [30]:
```
# 12. Write a program to remove ch
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:apple
Enter the index number where u wan
t to remove: 1
pple
```

In [31]:
```
# 13.Iterate the given list of num
n=int(input("enter the range : "))
list=[]
for i in range (0,n):
    c=int(input("enter the element
    list.append(c)
print("the numbers divisibl by 5 a
for i in list:
    if i%5==0:
        print(i)
```
```
enter the range : 8
enter the elements : 67
enter the elements : 78
enter the elements : 78
enter the elements : 45
enter the elements : 71
enter the elements : 23
enter the elements : 32
enter the elements : 90
the numbers divisibl by 5 are :
45
90
```

In [32]:
```
#14.Write a program to find how ma
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 [33]:
```
# 15.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 [34]:
```
#16.Write a program to check if th
num = input("Enter a number:")
if num == num[::-1]:
    print("Yes its a palindrome")
else:
    print("No, its not a palindrom
```
```
Enter a number:345
No, its not a palindrome
```

In [35]:
```
#17.Python program to interchange
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 [2]:
```
# 18. Swapping of two numbers in a
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 i1:2
Enter i2:4
The Updated list is:
[58, 75, 25, 37, 69, 589]
```

In [3]:
```
#19.Python Ways to find length of
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 [4]:
```
#20.Maximum of two numbers in Pyth
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:5
Enter the value of b:7
b is greater
```

In [5]:
```
#21.Minimum of two numbers in Pyth
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 [6]:
```
#22.Python program to check whethe
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:sir
The string is not symmetrical
The string is not a palindrome
```

In [7]:
```
#23.Reverse words in a given Strin
my_string = "Python Programming"
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:
Python Programming
My reversed string is:
Programming Python
```

In [8]:
```
#24.Ways to remove i’th character
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:3
Helo!
```

In [9]:
```
#25.Find length of a string in pyt
my_string = "hello world"
string_length = len(my_string)
print("Length of my string is:")
print(string_length)
```
```
Length of my string is:
11
```

In [10]:
```
#26.Python program to print even l
print("Enter your 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 your string:
eathan
The even indexed strings are:
eathan
```

In [11]:
```
#27.Python program to Find the siz
import sys
# Define a tuple
my_tuple = ('keerthana',2005)
# 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 [13]:
```
#28.Python – Maximum and Minimum K
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:5
The 5 largest elements in the tupl
e are: [100, 90, 80, 70, 60]
The 5 smallest elements in the tup
le are: [10, 20, 30, 40, 50]
```

In [14]:
```
#29.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 [15]:
```
#30.Python – Row-wise element Addi
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 [ ]: