In []: print("hello world"); In [2]: a=int(input("enter a number:")) b=int(input("enter a number:")) sum=a+b print("the sum is:", sum) enter a number:3 enter a number:3 the sum is: 6 In [3]: **x=4** y=8 x, y=y, xprint("a=",x,"b=",y) a= 8 b= 4 In [4]: km=int(input("enter value in kilometers:")) cf=0.621371 m=km*cf print("km to miles",(km,m)) enter value in kilometers:4 km to miles (4, 2.485484) In [5]: a=int(input("enter a number")) **if** a>0: print("positive number") **elif** a==0: print("zero") else: print("negative number") enter a number4 positive number In []: #prime number within integral a=int(input("enter the year")) **if**(a%4==0)and(a%100!=0)or(a%400==0): print("leap year") print("not leap year") In [5]: a=int(input("enter the lower range:")) b=int(input("enter the higher range:")) for n in range(a,b+1): **if** n>1: for i in range(2,n): **if**(n%i)==0: break else: print(n) enter the lower range:3 enter the higher range:90 3 5 7 11 13 17 19 23 29 31 37 41 43 47 53 59 61 67 71 73 79 83 89 In [6]: a=int(input("enter the range:")) n1, n2=0, 1 C=0**if** a<=0: print("enter the positive number") **elif** a**==**1: print("fibonacci series upto",a,":") print(n1) else: print("fibonacci sequence:") while c<a: print(n1) n=n1+n2 n1=n2 n2=n c+=1 enter the range:5 fibonacci sequence: 1 1 2 In [10]: a=int(input("enter the number:")) sum=0 temp=a while(temp>0): digit=temp%10 sum+=digit**3 temp//=10 if a==sum: print(a,"is an armstrong number") print(a,"is not an armstrong number") enter the number:4 4 is not an armstrong number In [13]: # Sum of natural numbers up to num num = int(input("enter the number:")) **if** num < 0: print("Enter a positive number") else: # use while loop to iterate until zero while(num > 0): sum += num num -= 1 print("The sum is", sum) enter the number:45 The sum is 1035 In [14]: rows = int(input("Enter number of rows: ")) for i in range(rows): for j in range(i+1): print("* ", end="") print("\n") Enter number of rows: 5 * * * * * In [1]: input_string = "Adcictcya" char_to_remove = "c" newStr = "" for character in input_string: if character != char_to_remove: newStr += character print("The input string is:", input_string) print("The character to delete is:", char_to_remove) print("The output string is:", newStr) The input string is: Adcictcya The character to delete is: c The output string is: Aditya In [12]: list_1 = [13, 14, 87, 44, 70, 9] result = list (filter (lambda x: (x % 5 == 0), list_1)) print ("Numbers that are divisible by 5 are:", result) Numbers that are divisible by 5 are: [70] In [15]: s = 'hihihi' sb = 'hi'results = 0 $sub_len = len(sb)$ for i in range(len(s)): if s[i:i+sub_len] == sb: results += 1 print(results) In [17]: 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 [18]: | n=int(input("Enter number:")) temp=n rev=0 while(n>0): dig=n%**10** rev=rev*10+dig n=n//10 if(temp==rev): print("The number is a palindrome!") print("The number isn't a palindrome!") Enter number:545 The number is a palindrome! In [19]: def swapList(newList): newList[0], newList[-1] = newList[-1], newList[0] return newList newList = [12, 35, 9, 56, 24]print(swapList(newList)) [24, 35, 9, 56, 12] In [20]: def swapPositions(list, pos1, pos2): list[pos1], list[pos2] = list[pos2], list[pos1] return list List = [23, 65, 19, 90]pos1, pos2 = 1, 3print(swapPositions(List, pos1-1, pos2-1)) [19, 65, 23, 90] In [21]: 1i = [10, 20, 30]n = len(li)print("The length of list is: ", n) The length of list is: 3 In [28]: list1 = [3, 2, 8, 5, 10, 12] list1.sort() print(list1) print("maximum of two numbers:",list1[-1],list1[-2]) [2, 3, 5, 8, 10, 12] maximum of two numbers: 12 10 In [30]: list1 = [3, 2, 8, 5, 10, 12]list1.sort() print(list1) print("minimum of two numbers:",list1[0],list1[1]) [2, 3, 5, 8, 10, 12] miniimum of two numbers: 2 3 In [32]: def palindrome(a): mid=(len(a)-1)//2start=0 last=len(a)-1flag=0 while(start<mid):</pre> if(a[start]==a[last]): start**+=**1 last-=1 else: flag=1 break; if flag==0: print("the entered string is palindrome") else: print("The entered string is not palindrome") def symmetry(a): n=len(a)flag=0 **if** n%2: mid=n//2+1else: mid=n//2start1=0 start2=mid while(start1<mid and start2<n):</pre> if(a[start1]==a[start2]): start1=start1+1 start2=start2+1 else: flag=1 break if flag==0: print("The entered string is symmetrical") print("The entered string is not symmetrical") string='amaama' palindrome(string) symmetry(string) the entered string is palindrome The entered string is symmetrical In [36]: string = "Welcome to the karkalan magic show" s = string.split()[::-1] 1 = []for i in s: l.append(i) print(" ".join(1)) show magic karkalan the to Welcome In [39]: string1 = "subashinicarounagarane" string2 = "" for i in range(len(string1)): **if** i != 2: string2 = string2+ string1[i] print ("The string after removal of i'th character : " +string2) The string after removal of i'th character : suashinicarounagarane In [46]: string="subashini" a=len(string) print(a) In [49]: n="Never give up" s=n.split(" ") for i in s: if len(i)%2==0: print(i) give up In [52]: size = ("A", 1, "B", 2, "C", 3) print("Size of Tuple1: " + str(size.__sizeof__()) + "bytes") Size of Tuple1: 72bytes In [25]: t=(1,2,3,4,5) print("maximum value=", max(t)) print("minimum value=", min(t)) maximum value= 5 minimum value= 1 In [22]: def summation(test_tup): test = list(test_tup) count = 0 for i in test: count += i return count test_tup = (5, 20, 3, 7, 6, 8) print(summation(test_tup)) In [27]: 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