In [1]: #python level one programs #1.print s="hello world" print(s) hello world In [2]: #2.get input and perform addition r = int(input("enter num:")) s=int(input("enter num:")) 1=r+s print(1) enter num:4 enter num:6 10 In [3]: #3.swap without temp a=4 b=6 a,b=b,a print(a,b) 6 4 In [4]: #4.convert the kilo q=int(input("enter num:")) w=q*0.621371print(w) enter num:4 2.485484 In [5]: #5.check pos,neg ,zero n=int(input("enter a num:")) **if** n==0: print("its a zero") elif n>0: print("it is a positive number") elif n<0:</pre> print("it is a negative number") else: print(" enter only integers") enter a num:-45 it is a negative number In [6]: #6.leap year or not n=int(input("enter a year")) if((n%4==0)) and (n%100!=0)) or (n%400==0): print("its a leap year") else: print("it is not leap year") enter a year2004 its a leap year In [20]: #7.prime d=int(input("enter the min number:")) u=int(input("enter the max number:")) print("prime number betwwen",d,"to",u,"are") for i in range(d,u+i): for j in range(2,i): **if(i%j**==0): break else: print(i) enter the min number:1 enter the max number:10 prime number betwwen 1 to 10 are 1 2 3 7 11 In [19]: #8.fibonacci p=int(input("enter sequence:")) n1=0 n2=1 C=0 **if** p<0: print("enter a positive number") **elif** p**==**1: print("fibonacci series upto",p,":") print(n1) else: print("fibonacci series") while c<p: print(n1) n=n1+n2 n1=n2 n2=n c+=1enter sequence:7 fibonacci series 1 1 2 3 5 In [22]: #9.armstrong number or not k=int(input("enter the number:")) sum=0 temp=k d=temp%10 e=(temp//10)%10 f=int(temp/100) sum=(d**3)+(e**3)+(f**3)if sum==k: print("it is a armstrong number") else: print("it is not a armstrong number") enter the number:371 it is a armstrong number In [24]: #10.sum of natural numbers up to nth term y=int(input("enter the range")) sum=0 for x in range(1, y+1, 1): sum+=x print("sum of n terms", sum) enter the range25 sum of n terms 325 In [26]: #11.show stars(row) def stars(row): for i in range(1, row+1): print("*"*i) stars(int(input("enter numbers:"))) enter numbers:5 * * * * * * * In [28]: #12.remove characters from a string upto terms def remove(s,n): return s[n:] k=input("enter the string:") i=int(input("enter the index number:")) j=remove(k,i) print(j) enter the string:python enter the index number:2 thon In [4]: #13.iterate given numbers and print which are divisible by 5 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 divisible by 5 are: ") for i in list: **if** i%5==0: print(i) enter the range:5 enter the elements: 20 enter the elements: 16 enter the elements: 30 enter the elements: 10 enter the elements: 3 the numbers divisible by 5 are: 20 30 10 #14.program to find how many times substring "hi" appears s=("hi madam, hi sir,hi everyone") subs="hi" count=s.count(subs) print("The count of the substring is : ",count) The count of the substring is : 3 In [39]: # 15.Print the number pattern 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 [42]: #16.to check it is palindrome or not num = input("Enter a number:") **if** num == num[::-1]: print("Yes its a palindrome") else: print("No, its not a palindrome") Enter a number:505 Yes its a palindrome In [45]: #list exercise #17.program to interchange 1st and last l=[18, "hill", "moon", 25, "mountain"] l[0], l[len(1)-1]=l[len(1)-1], l[0] print(1) ['mountain', 'hill', 'moon', 25, 18] In [46]: #18.swap two elements in list def swap(list, pos1, pos2): list[pos1], list[pos2]=list[pos2], list[pos1] return list list=["hi", 'sang', "python", "program"] pos1, pos2=1, 3 print(swap(list,pos1-1,pos2-1)) ['python', 'sang', 'hi', 'program'] In [47]: #19.ways to find length of list l=["hi", 45, 78, "sang", "japan"] s=len(1)print(s) #using naive method counter=0 for i in 1: counter = counter + 1print("the len of list using naive method:" +str(counter)) #using enumerate s=0 for i, a in enumerate(1): s **+=** 1 print(s) the len of list using naive method:5 In [48]: #20.max of two number 1=[45,67] print(max(1)) #21.min of two print(min(l)) 67 45 In [49]: #string exercise #22.symmetric or palindrome n=(input("enter a string")) symmetrical = n == n[::-1]palindrome = n =="".join(reversed(n)) if symmetrical: print("it is symetric") else: print("not symetric") if palindrome: print("it is palindrome") else: print("it is not a plaindrome") enter a stringradar it is symetric it is palindrome In [50]: *#23.reverse words* s=" this is sangeetha " r=s.split() r.reverse() c=" ".join(r) print(c) sangeetha is this In [51]: #24.ways to find length l='he l l o pyth o n' print(len(1)) #another def findLen(1): counter = 0while 1[counter:]: counter += 1 return counter print(findLen(1)) 20 20 In [52]: #25.ways to remove character s="sangee" d=int(input("index to be removed")) t=s[:d]+s[d+1:] print(t) index to be removed5 sange In [53]: #26.print even words g=input("enter string:") s=n.split(" ") for i in s: if len(i)%2==0: print(i) enter string:hi sang In [54]: #tuple #27.size of a tuple import sys t=("sangee") print("size of t :" +str(sys.getsizeof(t)) +"bytes") size of t :55bytes In [55]: #28.maximum and mininum k elements import heapq t = (67, 4, 8, 56)K = 2minimum = heapq.nsmallest(K, t) maximum = heapq.nlargest(K, t) print("the maximum value", maximum) print("the minimum value", minimum) the maximum value [67, 56] the minimum value [4, 8] In [60]: #29.sum def sum(elements): t=(elements) count=0 for i in t: count += i return count elements=(3,4,7,8,10)print(sum(elements)) 32 In [62]: #30.row wise element addition in tuple matrix matrix = ((1,2,3),(4,5,6),(7,8,9))print("My row matrix:", matrix) print("The sum of each row matrix is:") **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: 6 15 24 In []: