In [1]: #1.Display Hello World print("Hello World") Hello World In [2]: #2.Addition of two numbers a=int(input("Enter the value of a: ")) b=int(input("Enter the value of b: ")) c=a+b print("The Sum of two numbers is",c) Enter the value of a: 5 Enter the value of b: 3 The Sum of two numbers is 8 In [3]: #3.program to swap two values without dummy variable x=5 y=10 x, y=y, xprint("The value of x is",x,"and y is",y) The value of x is 10 and y is 5 In [4]: #4.kilometers to meters km=int(input("Enter the kilometers: ")) meter=km*1000 print(meter) Enter the kilometers: 4 4000 In [5]: #5.Number is positive or negative num=int(input("Enter the value: ")) **if**(num>0): print("Positive number") elif(num<0):</pre> print("Negative number") else: print("Both are equal") Enter the value: 4 Positive number In [6]: #6.Check leap year year=int(input("Enter the year: ")) if(year %4 == 0)and(year % 100 != 0):print("Leap year") else: print("Not a leap year") Enter the year: 2004 Leap year In [7]: #7.display prime numbers lr=int(input("Enter the value")) hr=int(input("Enter the value")) print("prime numbers between", lr, "to", hr, "are") for num in range(lr,hr+1): if num>1: for i in range(2, num): **if**(num%i==0): break else: print(num) Enter the value4 Enter the value9 prime numbers between 4 to 9 are 5 7 In [8]: #8.fibonacci sequence r=int(input("Enter the number of terms: ")) t1, t2=0, 1 C=0**if** r<=0: print("positive") else: print("Fibonacci sequence:") for i in range(1,r+1): print(t1) nt=t1+t2 t1=t2 t2=nt c=c+1 Enter the number of terms: 5 Fibonacci sequence: 0 1 1 2 3 In [1]: #9.Checking armstrong number num=int(input("Enter the value: ")) sum=0 ori=num while(ori>0): a=ori%**10** sum+=a**3 ori//=10 if(num==sum): print("Armstrong number") else: print("Not an armstrong number") Enter the value: 153 Armstrong number In [2]: #10.sum of n r=int(input("Enter the range: ")) sum=0 for i in range(1, r+1): sum=sum+i print(sum) Enter the range: 5 15 In [4]: #11.Pattern r=int(input("Enter the number of rows: ")) for i in range(1,r+1): for j in range(1, i+1): print("*", end=" ") print("\n") Enter the number of rows: 5 In [4]: #12.Remove characters from string ini_string1 = 'geeksforgeeks' print("Initial String", ini_string1) res = ini_string1[5:] print("Resultant String", res) Initial String geeksforgeeks Resultant String forgeeks #13.Numbers divisible by 5 list=[5,2,10,3,20,30] for i in list: **if(**i%**5**==0): print(i) 5 10 20 30 In [9]: #14.Count of substrings string="Hi This is Hi tech world" print(string.count('Hi')) 2 In [10]: #15.Pattern rows = int(input("Enter number of rows: ")) num=1for i in range(rows): for j in range(i+1): print(num, end=" ") num+= 1 print("\n") Enter number of rows: 5 2 2 3 3 3 4 4 4 4 5 5 5 5 5 In [26]: #16.Palindrome number n=int(input("Enter a three digit number: ")) ori=n rev=0 while(ori!=0): rem=ori%10 rev=rev*10+rem ori=ori//10 print(rev) if(n==rev): print("Palindrome") else: print("Not a Palindrome") Enter a three digit number: 121 121 Palindrome In []: #17.swapping first and last elements in a list newList = [11, 3, 12, 43, 24]newList[0], newList[-1]=newList[-1], newList[0] print(newList) In [41]: #18.Swap two elements in a list list1=[11,3,12,43,24] pos1=int(input("Enter first position: ")) pos2=int(input("Enter second position: ")) list1[pos1], list1[pos2] = list1[pos2], list1[pos1] print(list1) Enter first position: 1 Enter second position: 4 [11, 24, 12, 43, 3] In [3]: #19.length of a list in python li = [10, 20, 30]n = len(li)print("The length of list is: ", n) The length of list is: 3 In [4]: #20.Maximum of two numbers a = 2b = 4if(a>b): print("A is greater") else: print("B is greater") B is greater In [25]: #21.Minimum of two numbers in python a=4 b=2 **if**(a<b): print("A is smaller") else: print("B is smaller") B is smaller In [30]: #22.program to check whether the string is symmetrical or palindrome string='amaama' half=int(len(string)/2) fs=string[:half] ss=string[half:] if(fs==ss): print("Symmetrical") else: print("Non-Symmetrical") if string==string[::-1]: print("Palindrome") else: print("Not a palindrome") Symmetrical Palindrome In [34]: #23.# reverse a word in string string = "class in python programming" words = string.split() print(words) words = list(reversed(words)) print(words) print(" ".join(words)) ['class', 'in', 'python', 'programming']
['programming', 'python', 'in', 'class'] programming python in class In [36]: #24.Ways to remove i'th character from string in python string="GeeksforGeeks" new=string.replace('e','',1) print(new) GeksforGeeks In [38]: #25.Find length of a string in python string="Programming" print(len(string)) 11 In [42]: #26.Python program to print even length words in a string string="I love to do painting" new=string.split() for i in new: if len(i)%2==0: print(i) love to do painting In [44]: #27.Find the length of a tuple tup=(1,2,3,4)print(len(tup)) In [52]: #28.Python - Maximum and Minimum K elements in Tuple tup=(1,5,2,8,4,9)k=2 tup=list(tup) t=sorted(tup) res=tuple(t[:k]+t[-k:]) print(res) (1, 2, 8, 9)In [58]: #29.Python - Sum of tuple elements test_tup = (7,8,9,1,10,7)print(test_tup) r=0 for i in test_tup: r=r+i print(r) (7, 8, 9, 1, 10, 7)42 In [1]: #30.Python - Row-wise element Addition in Tuple Matrix test_list = [[('Gfg', 3), ('is', 3)], [('best', 1)], [('for', 5), ('geeks', 1)]] print("The original list is : " + str(test_list)) $cus_{eles} = [6, 7, 8]$ res = [[sub + (cus_eles[idx],) for sub in val] for idx, val in enumerate(test_list)] print("The matrix after row elements addition : " + str(res)) The original list is : [[('Gfg', 3), ('is', 3)], [('best', 1)], [('for', 5), ('geeks', 1)]] The matrix after row elements addition : [[('Gfg', 3, 6), ('is', 3, 6)], [('best', 1, 7)], [('for', 5, 8), ('geeks', 1, 8)]]