**Basic level Programs**

1)Python Program to find Sum of Natural Numbers

2)Python Program to find Sum of Even Numbers

3)Python example to find Sum and Average of Natural Numbers

4)Python example to find Sum of Odd Numbers

5)Python example to find sum of Even and Odd Numbers

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1)Python example for ASCII Value of a Single Character

2)Python program to print ASCII Value of Total Characters in a String

3)Python program to Concatenate Strings

4)Python program to Convert String to Uppercase

5)Python program to Convert String to Lowercase

6)Python program to Copy a String

7)Python program to Count Occurrence of a Character in a String

8)Python program to Count Total Characters in a String

9)Python program to Count Total Number of Words in a String

10)Python program to Count Vowels in a String

11)Python program to Count Vowels and Consonants in a String

12)Python program to Count Alphabets Digits and Special Characters in a String

13)Python program to Print First Occurrence of a Character in a String

14)Python program to Print Last Occurrence of a Character in a String

15)Python program to check Palindrome or Not

16)Python program to Print Characters in a String

17)Python program to Replace Blank Space with Hyphen in a String

18)Python program to Replace Characters in a String

19)Python program to Remove Odd Characters in a String

20)Python program to Remove Odd Index Characters in a String

21)Python program to Remove First Occurrence of a Character in a String

22)Python program to Remove Last Occurred Character in a String

23)Python program to Reverse a String

24)Python program to find String Length

25)Python program to find Total Occurrence of a Character in a String

26)Python program to Toggle Characters Case in a String

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1)Python example to access List Index and Values

2)Python example to add two Lists

3)Python example for Arithmetic Operations on Lists

4)Python example to check List is Empty or Not

5)Python example to Clone or Copy a List

Python program to Count Even and Odd Numbers in a List

6)Python program to Count Positive and Negative Numbers in a List

7)Python program to Print Largest Number in a List

8)Python program to Print Largest and Smallest Number

9)Python program to find Length of a List

10)Python program to find List Difference

11)Python List Multiplication Program

Python program to Print Elements in a List

12)Python program to Even Numbers in a List

13)Python program to Print Odd List Numbers

14)Python program to Print Positive Numbers

15)Python program to Print Negative Numbers

16)Python program to Put Even and odd Numbers in Separate List

17)Python program to Put Positive and Negative Numbers in Separate List

18)Python program to Remove Duplicates from List

19)Python program to Remove Even Numbers in a List

20)Python program to Reverse List Items

21)Python program to Print Second Largest Number in a List

22)Python program to Sort Elements in Ascending Order

23)Python program to Print Smallest Element in a List

24)Python program to find Sum of All Elements

25)Python program to find Sum of Even and Odd Numbers in a List

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**Prepinsta Top 100 codes**

Positive or Negative number:

Even or Odd number

Sum of First N Natural numbers:

Sum of N natural numbers:

Sum of numbers in a given range:

Greatest of two numbers:

Greatest of the Three numbers:

Leap year or not:

Prime number:

Prime number within a given range:

Sum of digits of a number:

Reverse of a number :

Palindrome number:

Armstrong number :

Armstrong number in a given range :

Fibonacci Series upto nth term :

Factorial of a number :

Power of a number :

Factor of a number :

Strong number :

Perfect number :

Automorphic number :

Harshad number :

Abundant number :

Friendly pair

Highest Common Factor(HCF):

Lowest Common Multiple (LCM) :

Greatest Common Divisor

Binary to Decimal to conversion :

Binary to Octal conversion :

Decimal to Binary conversion:

Decimal to octal Conversion:

Octal to Binary conversion :

Octal to Decimal conversion :

Quadrants in which a given coordinate lies :

Permutations in which n people can occupy r seats in a classroom :

Maximum number of handshakes:

Addition of two fractions:

Replace all 0’s with 1 in a given integer :

Can a number be expressed as a sum of two prime numbers :

Count possible decoding of a given digit sequence :

Check whether a character is a vowel or consonant :

Check whether a character is a alphabet or not

Calculate the area of a circle :

Find the ASCII value of a character

Find the prime numbers between 1 to 100 :

Calculate the number of digits in an integer :

Convert digit/number to words :

Counting number of days in a given month of a year:

Finding Number of times x digit occurs in a given input :

Finding number of integers which has exactly x divisors:

Finding Roots of a quadratic equation :

Find Smallest Element in an Array :

Find Second Smallest Element in an Array :

Find Largest element in an array :

Find the Smallest and largest element in an array

Calculate the sum of elements in an array :

Reverse an Array :

Sort first half in ascending order and second half in descending :

Sort the elements of an array :

Finding the frequency of elements in an array

Finding the Longest Palindrome in an Array :

Counting Distinct Elements in an Array :

Finding Repeating elements in an Array :

Finding Non Repeating elements in an Array :

Removing Duplicate elements from an array :

Finding Minimum scalar product of two vectors :

Finding Maximum scalar product of two vectors in an array :

Counting the number of even and odd elements in an array

Find all Symmetric pairs in an array :

Find maximum product sub-array in a given array :

Finding Arrays are disjoint or not :

Determine Array is a subset of another array or not :

Determine can all numbers of an array be made equal :

Finding Minimum sum of absolute difference of given array :

Sorting elements of an array by frequency :

Sort an array according to the order defined by another array :

Replace each element of the array by its rank in the array :

Finding equilibrium index of an array

Rotation of elements of array- left and right :

Block swap algorithm for array rotation :

Juggling algorithm for array rotation :

Finding Circular rotation of an array by K positions :

Program for Pyramid star pattern

Program for Pyramid number pattern

Program for Palindromic Pyramid Pattern – Java | Python

Program for Diamond star pattern

Program for Diamond number pattern

Program for Floyd’s Trianlge – Java | Python

Program for Pascal triangle – Java | Python

Program to Check array similarity

Program for Square sum

Program for Longest palindrome in the array

Length of the string without using strlen() function :

Toggle each character in a string :

Count the number of vowels :

Remove the vowels from a String :

Check if the given string is Palindrome or not :

Print the given string in reverse order :

Remove all characters from string except alphabets :

Remove spaces from a string :

Remove brackets from an algebraic expression :

Count the sum of numbers in a string

Capitalize the first and last character of each word of a string :

Calculate frequency of characters in a string :

Find non-repeating characters in a string :

Check if two strings are Anagram or not :

Replace a sub-string in a string:

Count common sub-sequence in two strings :

Check if two strings match where one string contains wildcard characters :

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**Sanfoundary Python Programs**

1)Basic Programs

Python Program to Calculate the Average of Numbers in a Given List

Python Program to Exchange the Values of Two Numbers Without Using a Temporary Variable

Python Program to Read a Number n and Compute n+nn+nnn

Python Program to Reverse a Given Number

Python Program to Check Whether a Number is Positive or Negative

Python Program to Take in the Marks of 5 Subjects and Display the Grade

Python Program to Print all Numbers in a Range Divisible by a Given Number

Python Program to Read Two Numbers and Print Their Quotient and Remainder

Python Program to Accept Three Digits and Print all Possible Combinations from the Digits

Python Program to Print Odd Numbers Within a Given Range

Python Program to Find the Sum of Digits in a Number

Python Program to Find the Smallest Divisor of an Integer

Python Program to Count the Number of Digits in a Number

Python Program to Check if a Number is a Palindrome

Python Program to Print all Integers that Aren't Divisible by Either 2 or 3 and Lie between 1 and 50.

Python Program to Read a Number n And Print the Series "1+2+…..+n= "

Python Program to Read a Number n and Print the Natural Numbers Summation Pattern

Python Program to Print an Identity Matrix

Python Program to Print an Inverted Star Pattern

Python Program to Read Print Prime Numbers in a Range using Sieve of Eratosthenes

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2)Python Programming Examples on Mathematical Functions

Python Program to Check if a Date is Valid and Print the Incremented Date if it is

Python Program to Compute Simple Interest Given all the Required Values

Python Program to Check Whether a Given Year is a Leap Year

Python Program to Read Height in Centimeters and then Convert the Height to Feet and Inches

Python Program to Take the Temperature in Celcius and Covert it to Farenheit

Python Program to Compute Prime Factors of an Integer

Python Program to Generate all the Divisors of an Integer

Python Program to Print Table of a Given Number

Python Program to Print Sum of Negative Numbers, Positive Even Numbers and Positive Odd numbers in a List

Python Program to Print Largest Even and Largest Odd Number in a List

Python Program to Form an Integer that has the Number of Digits at Ten's Place and the Least Significant Digit of the Entered Integer at One's Place

Python Program to Find Those Numbers which are Divisible by 7 and Multiple of 5 in a Given Range of Numbers

Python Program to Check if a Number is an Armstrong Number

Python Program to Print the Pascal's triangle for n number of rows given by the user

Python Program to Check if a Number is a Perfect Number

Python Program to Check if a Number is a Strong Number

Python Program to Find the LCM of Two Numbers

Python Program to Find the GCD of Two Numbers

Python Program to Compute a Polynomial Equation given that the Coefficients of the Polynomial are stored in a List

Python Program to Check If Two Numbers are Amicable Numbers

Python Program to Find the Area of a Triangle Given All Three Sides

Python Program to Find the Gravitational Force Acting Between Two Objects

Python Program to Check if a Number is a Prime Number

Python Program to Print all the Prime Numbers within a Given Range

Python Program to Print Numbers in a Range (1,upper) Without Using any Loops

Python Program to Find the Sum of Sine Series

Python Program to Find the Sum of Cosine Series

Python Program to Find the Sum of First N Natural Numbers

Python Program to Find the Sum of the Series: 1 + 1/2 + 1/3 + ….. + 1/N

Python Program to Find the Sum of the Series: 1 + x^2/2 + x^3/3 + … x^n/n

Python Program to Compute the Value of Euler's Number e. Use the Formula: e = 1 + 1/1! + 1/2! + …… 1/n!

Python Program to Determine all Pythagorean Triplets in the Range

Python Program to Search the Number of Times a Particular Number Occurs in a List

Python Program to test Collatz Conjecture for a Given Number

Python Program to Count Set Bits in a Number

Python Program to Find Whether a Number is a Power of Two

Python Program to Clear the Rightmost Set Bit of a Number

Python Program to Generate Gray Codes using Recursion

Python Program to Convert Gray Code to Binary

Python Program to Convert Binary to Gray Code

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3. Python Programming Examples on Lists

Python Program to Find the Largest Number in a List

Python Program to Find the Second Largest Number in a List

Python Program to Put Even and Odd elements in a List into Two Different Lists

Python Program to Merge Two Lists and Sort it

Python Program to Sort the List According to the Second Element in Sublist

Python Program to Find the Second Largest Number in a List Using Bubble Sort

Python Program to Sort a List According to the Length of the Elements

Python Program to Find the Union of two Lists

Python Program to Find the Intersection of Two Lists

Python Program to Create a List of Tuples with the First Element as the Number and Second Element as the Square of the Number

Python Program to Find all Numbers in a Range which are Perfect Squares and Sum of all Digits in the Number is Less than 10

Python Program to Find the Cumulative Sum of a List where the ith Element is the Sum of the First i+1 Elements From The Original List

Python Program to Generate Random Numbers from 1 to 20 and Append Them to the List

Python program to Sort a List of Tuples in Increasing Order by the Last Element in Each Tuple

Python Program to Swap the First and Last Value of a List

Python Program to Remove the Duplicate Items from a List

Python Program to Read a List of Words and Return the Length of the Longest One

Python Program to Remove the ith Occurrence of the Given Word in a List where Words can Repeat

Python Program to Remove All Tuples in a List of Tuples with the USN Outside the Given Range

Python Program to solve Maximum Subarray Problem using Divide and Conquer

Python Program to solve Maximum Subarray Problem using Kadane’s Algorithm

Python Program to Find Element Occurring Odd Number of Times in a List

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4. Python Programming Examples on Strings

Python Program to Replace all Occurrences of ‘a’ with $ in a String

Python Program to Remove the nth Index Character from a Non-Empty String

Python Program to Detect if Two Strings are Anagrams

Python Program to Form a New String where the First Character and the Last Character have been Exchanged

Python Program to Count the Number of Vowels in a String

Python Program to Take in a String and Replace Every Blank Space with Hyphen

Python Program to Calculate the Length of a String Without Using a Library Function

Python Program to Remove the Characters of Odd Index Values in a String

Python Program to Calculate the Number of Words and the Number of Characters Present in a String

Python Program to Take in Two Strings and Display the Larger String without Using Built-in Functions

Python Program to Count Number of Lowercase Characters in a String

Python Program to Check if a String is a Palindrome or Not

Python Program to Calculate the Number of Upper Case Letters and Lower Case Letters in a String

Python Program to Check if a String is a Pangram or Not

Python Program to Accept a Hyphen Separated Sequence of Words as Input and Print the Words in a Hyphen-Separated Sequence after Sorting them Alphabetically

Python Program to Calculate the Number of Digits and Letters in a String

Python Program to Form a New String Made of the First 2 and Last 2 characters From a Given String

Python Program to Count the Occurrences of Each Word in a Given String Sentence

Python Program to Check if a Substring is Present in a Given String

Python Program to Print All Permutations of a String in Lexicographic Order without Recursion

Python Program to Print All Permutations of a String in Lexicographic Order using Recursion

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**5. Python Programming Examples on Dictionary**

Python Program to Add a Key-Value Pair to the Dictionary

Python Program to Concatenate Two Dictionaries Into One

Python Program to Check if a Given Key Exists in a Dictionary or Not

Python Program to Generate a Dictionary that Contains Numbers (between 1 and n) in the Form (x,x\*x).

Python Program to Sum All the Items in a Dictionary

Python Program to Multiply All the Items in a Dictionary

Python Program to Remove the Given Key from a Dictionary

Python Program to Form a Dictionary from an Object of a Class

Python Program to Map Two Lists into a Dictionary

Python Program to Count the Frequency of Words Appearing in a String Using a Dictionary

Python Program to Create a Dictionary with Key as First Character and Value as Words Starting with that Character

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**6. Python Programming Examples on Sets**

Python Program to Count the Number of Vowels Present in a String using Sets

Python Program to Check Common Letters in Two Input Strings

Python Program that Displays which Letters are in the First String but not in the Second

Python Program that Displays which Letters are Present in Both the Strings

Python Program that Displays which Letters are in the Two Strings but not in Both

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**7. Python Programs with Recursions**

Python Program to Determine Whether a Given Number is Even or Odd Recursively

Python Program to Determine How Many Times a Given Letter Occurs in a String Recursively

Python Program to Find the Fibonacci Series Using Recursion

Python Program to Find the Factorial of a Number Using Recursion

Python Program to Find the Sum of Elements in a List Recursively

Python Program to Find the Binary Equivalent of a Number Recursively

Python Program to Find the Sum of the Digits of the Number Recursively

Python Program to Find the LCM of Two Numbers Using Recursion

Python Program to Find the GCD of Two Numbers Using Recursion

Python Program to Find if a Number is Prime or Not Prime Using Recursion

Python Program to Find the Product of two Numbers Using Recursion

Python Program to Find the Power of a Number Using Recursion

Python Program to Check Whether a String is a Palindrome or not Using Recursion

Python Program to Reverse a String Using Recursion

Python Program to Flatten a Nested List using Recursion

Python Program to Find the Total Sum of a Nested List Using Recursion

Python Program to Find the Length of a List Using Recursion

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**8. Python Programs without Recursions**

Python Program to Find the Fibonacci Series without Using Recursion

Python Program to find the factorial of a number without recursion

Python Program to Flatten a List without using Recursion

Python Program to Reverse a String without using Recursion

Python Program to Find the Binary Equivalent of a Number without Using Recursion

Python Program to Find All Numbers which are Odd and Palindromes Between a Range of Numbers without using Recursion

Python Program to Find the Sum of Digits in a Number without Recursion

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**9. Python Programs on File Handling**

Python Program to Read the Contents of a File

Python Program to Count the Number of Words in a Text File

Python Program to Count the Number of Lines in a Text File

Python Program to Read a String from the User and Append it into a File

Python Program to Count the Occurrences of a Word in a Text File

Python Program to Copy the Contents of One File into Another

Python Program that Reads a Text File and Counts the Number of Times a Certain Letter Appears in the Text File

Python Program to Read a Text File and Print all the Numbers Present in the Text File

Python Program to Append the Contents of One File to Another File

Python Program to Count the Number of Blank Spaces in a Text File

Python Program to Read a File and Capitalize the First Letter of Every Word in the File

Python Program to Read the Contents of a File in Reverse Order

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**10. Python Programs on Classes and Objects**

Python Program to Find the Area of a Rectangle Using Classes

Python Program to Append, Delete and Display Elements of a List Using Classes

Python Program to Create a Class and Compute the Area and the Perimeter of the Circle

Python Program to Create a Class which Performs Basic Calculator Operations

Python Program to Create a Class in which One Method Accepts a String from the User and Another Prints it

Python Program to Create a Class and Get All Possible Subsets from a Set of Distinct Integers

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