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|  | **Programming for Problem Solving using Python Lab** |
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|  | **List of Programs** |
| S.N. | Program Title |
| 1 | Python Program to Print Hello world! |
| 2 | Python Program to Add Two Numbers |
| 3 | Python Program to Find the Square Root |
| 4 | Python Program to Calculate the Area of a Triangle |
| 5 | Python Program to Solve Quadratic Equation |
| 6 | Python Program to Swap Two Variables |
| 7 | Python Program to Generate a Random Number |
| 8 | Python Program to Convert Kilometers to Miles |
| 9 | Python Program to Convert Celsius To Fahrenheit |
| 10 | Python program to convert height (in feet and inches) to centimeters. |
| 11 | Python program to calculate the hypotenuse of a right angled triangle. |
| 12 | Python program to convert all units of time into seconds. |
| 13 | Python program to convert seconds to day, hour, minutes and seconds. |
| 14 | Python program to get the Python version you are using. |
| 15 | Python program to display the current date and time. |
| 16 | Python program to accept a filename from the user and print the extension of that. |
| 17 | Python program to print the calendar of a given month and year. |
| 18 | Python program to calculate number of days between two dates. |
| 19 | Python program to print yesterday, today, tomorrow. |
| 20 | Python program to calculate midpoints of a line. |
| 21 | Python program to display your details like name, age, address in three different lines. |
| 22 | Python program to compute the distance between the points (x1, y1) and (x2, y2). |
| 23 | Python Program to Check if a Number is Positive, Negative or 0 |
| 24 | Python Program to Check if a Number is Odd or Even |
| 25 | Python Program to check whether an entered year is a leap year or not |
| 26 | Python Program to Find Numbers Divisible by Another Number |
| 27 | Python Program to Find the Largest Among Three Numbers |
| 28 | Python program to find the roots of a quadratic expression |
| 29 | Python program to find smallest number among three numbers. |
| 30 | Python program to check whether a number is prime number or not |
| 31 | Python Program to Print all Prime Numbers in a given Interval |
| 32 | Python Program to Display the multiplication Table |
| 33 | Python Program to Print the Fibonacci sequence |
| 34 | Python Program to Find the Sum of first N natural numbers |
| 35 | Python Program to Find the Factorial of a given number |
| 36 | Python Program to find sum of digits of a given number |
| 37 | Python Program to find reverse of a number |
| 38 | Python Program to Find the Factors of a Number |
| 39 | Python Program to print following pattern  \*  \*\*  \*\*\*  \*\*\*\*  \*\*\*\*\* |
| 40 | Python Program to print following pattern  \*  \*\*  \*\*\*  \*\*\*\*  \*\*\*\*\* |
| 41 | Python Program to print following pattern  \*  \*\*\*  \*\*\*\*\*  \*\*\*\*\*\*\*  \*\*\*\*\*\*\*\*\* |
| 42 | Python Program to print following pattern  A  BAB  ABABA  BABABAB  ABABABABA |
| 43 | Python Program to find greatest among three number using function |
| 44 | Python Program to find sum of following series using function  1/1! + 2/2! + 3/3! + 4/4! + up to n terms |
| 45 | Python Program to implement nCr using function |
| 46 | Python Program to find HCF and LCM of two numbers using function |
| 47 | Python Program to print factorial of a given number using function |
| 48 | Python Program to print Fibonacci Series up to n terms |
| 49 | Python Program to print factorial of a given number using recursion |
| 50 | Python Program to find GCD of two numbers using recursion |
| 51 | Python Program to multiply two numbers using lambda function |
| 52 | Python Program to implement Arithmetic calculator using module |
| 53 | Implement various String methods |
| 54 | Implement various List methods |
| 55 | Implement various Tuple methods |
| 56 | Implement various Set methods |
| 57 | Implement various Dictionary methods |
| 58 | Python Program to make a list of 5 random numbers |
| 59 | Python Program to find min, max and average of elements of a list having numeric data |
| 60 | Python Program to print all even numbers of a list using list comprehension |
| 61 | Python Program to find sum of all even numbers and odd numbers separately in a list |
| 62 | Python Program that reverses a list using loop. |
| 63 | Python Program that prompts user to enter an alphabet and then print all the words that starts with that alphabet. |
| 64 | Python Program to copy the contents of one file into another file |
| 65 | Python Program to count number of vowels in a text file |
| 66 | Python Program to count number of words in a text file |
| 67 | Python Program to Implement Sequential search to find an item in the list |
| 68 | Python Program to Implement Binary search to find an item in the list |
| 69 | Python Program to sort elements of a list using Selection Sort |
| 70 | Python Program to sort elements of a list using Merge Sort |
| 71 | Python Program to handle divide by zero exception |