**List of Programs for Computer Sc. Practical file - XI**

1. [Write a program to accepts two integers and print their sum.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc" \t "_self)
2. [Write a program that accepts the radius of a circle and prints its area.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)
3. [Write a program that accepts base and height and calculate the area of a triangle.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)
4. [Write a program that inputs a student’s marks in three subjects (out of 100) and prints the percentage marks.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)
5. [Write a program to compute the area of square and triangle.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)
6. [Write a program to calculate simple interest.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)
7. [Write a program to read two numbers and prints their quotient and reminder.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)
8. [Write a program to find whether a given number is even or odd.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)
9. [Write a program to find the largest among the three integers.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)
10. [Write a program to find the lowest among the three integers.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)
11. [Write a program that accepts the length and breadth of the rectangle and calculate its area.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)
12. [Write a program that accepts weight in Kg and height in meters and calculate the BMI.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)
13. [Write a program that reads the number n and print the value of n², n³ and n⁴.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)
14. [Write a program to accept the marks of five subjects and calculate the average marks.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)
15. [Write a program to accept the height in cm and convert it into feet and inches.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)
16. [Write a program that accepts the age and print if one is eligible to vote or not.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)
17. [Write a program that accepts two numbers and check if the first number is fully divisible by the second number or not.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)
18. [Write a program to read base, width and height of parallelogram and calculate its area and perimeter.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)
19. [Write a program to accept the year and check if it is a leap year or not.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)
20. [Write a program to obtain x, y, z and calculate 4x⁴+3y³+9z+6π.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)
21. [Write a program to input a number and print its square if it is odd, otherwise print its square root.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)
22. [Write a program to input a number and check whether it is positive, negative or zero.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)
23. Write a program to input percentage marks of a student and find the grade as per the following criterion:

[Marks                        Grade](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[>=90                           A](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[75-90                           B](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[60-75                           C](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[Below 60                       D](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[**24.**Write a program to enter a number and check if it is a prime number or not.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[**25.**Write a program to display a menu for calculating the area of the circle or perimeter of the circle.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[**26.** Write a program that reads two numbers and an arithmetic operator and displays the computed result.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[**27.**Write a program to print whether a given character is an uppercase or a lowercase character or a digit or any other character.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[**28.** Write a program to calculate and print the roots of a quadratic equation ax²+bx+c=0.(a≠0)](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[**29.**Write a program to print the sum of natural numbers between 1 to 7. Print the sum progressively i.e. after adding each natural number, a print sum so far.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[**30.** Write a program to calculate the factorial of a number.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[**31.** Write a program to create a triangle of stars using a nested loop.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[**32.** Write a Python script to print Fibonacci series’ first 20 elements.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[**33.** Write a program to read an integer>1000 and reverse the number.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[**34.** Input three angles and determine if they form a triangle or not.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[**35.** Write a Python script that displays the first ten Mersenne numbers.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[**36.** Write a Python script that displays the first ten Mersenne numbers and displays ‘Prime’ next to Mersenne Prime Numbers.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[**37.** Write a program to calculate BMI and print the nutritional status as per the following table:](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[**Nutritional Status     WHO criteria BMI**](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[**cut-off**](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[Underweight                 <18.5](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[Normal                         18.5-24.9](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[Overweight                   25-29.9](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[Obese                          ≥30](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[**38.** Write a python script to print the following pattern.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[1](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[1    3](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[1    3     5](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[1    3     5     7](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[**39.**Write a program to find the sum of the series :](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[s=1+x+x ²+x ³+x ⁴…+x ⁿ](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[**40.** Write a python script to input two numbers and print their LCM and HCF.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[**41.**Write a python script to calculate the sum of the following series:](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[S=(1)+(1+2)+(1+2+3)+……+(1+2+3+….+n)](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[**42.** Write a program to print the following using a single loop (no nested loops)](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[1](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[1    1](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[1    1    1](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[1    1    1    1](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[1    1    1    1    1](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[**43.** Write a program to print a pattern like:](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[4 3 2 1](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[4 3 2](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[4 3](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[4](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[**44.** A program that reads a line and prints its statistics like:](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

* [The number of uppercase letters:](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)
* [The number of lowercase letters:](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)
* [The number of alphabets:](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)
* [The number of digits:](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[**45.** Write a program that reads a line and a substring and displays the number of occurrences of the given substring in the line.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[**46.** Write a program that takes a string with multiple words and then capitalizes the first letter of each word and forms a new string out of it.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[**47.** Write a program that reads a string and checks whether it is a palindrome string or not.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[**48.**Write a program that reads a string and displays the longest substring of the given string having just the consonants.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[**49.** Write a program that reads a string and then prints a string that capitalizes every other letter in the string.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[**50.** Write a program that reads the email id of a person in the form of a string and ensures that it belongs to domain @edupillar.com (Assumption: no invalid characters are there in email-id)](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[**51.** WAP to remove all odd numbers from the given list.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[**52.**WAP to display the second largest element of a given list.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[**53.** WAP to display frequencies of all the elements of a list.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[**54.** WAP in Python to find and display the sum of all the values which are ending with 3 from a list.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[**55.** WAP to search an element from the given list.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[**56.** WAP to accept values from user and create a tuple.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[**57.** Write a program to input the total number of sections and stream name in 11th class and display all information on the output screen.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[**58.**Write a program to input the total number of sections and](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[**59.** WAP to store students’ details like admission number, roll number, name and percentage in a dictionary and display information on the basis of admission number.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[**60.** Write a Python program to remove an item from a tuple.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)

[**61.** Write a program to input n numbers from the user. Store these numbers in a tuple. Print the maximum, minimum, sum and mean of number from this tuple.](https://www.learnpython4cbse.com/xi-practical-file-programs-c-sc)