



SUMMER ASSIGNMENT

CLASS -XII

SUBJECT:- COMPUTER SCIENCE(083)

NOTE:- STUDENTS YOU SHOULD USE THE FUNCTION TO COMPLETE THE FOLLOWING PROGRAMS AS GIVEN BELOW.

1. To categorize a person as either Child (<13), Teenager (≥ 13).
2. To accept numbers till the user enters 0 and then find their sum.
3. To find the factorial of a given number.
4. Program to obtain three numbers and print their sum.
5. Program to obtain length and breadth of a rectangle and find area.
6. Program to calculate BMI (Body Mass Index) of a person.
7. Write a program to input two numbers and swap them.
8. Write a short program that accepts your height in cm and converts it.
9. Write a program to input a principal, rate and time and calculate simple interest.
10. Write a program to input a number and print its five multiples.
11. Write a program to obtain temperatures of 7 days and print average.
12. Write a program that reads number of seconds and converts it.
13. Find the volume of a cylinder ($\pi r^2 h$).
14. Assume a ladder is set upright against a wall.
15. Write a program that generates six random numbers.
16. Write a program to generate a 6-digit random secure OTP.
17. Write a program to input a number and print its first five multiples.
18. Program to input some numbers repeatedly and print their sum/average.
19. Program to input a number and test if it is a prime number.
20. Write Python code to add odd numbers up to a given number.
21. Write a Python script to print Fibonacci series (first 20 terms).
22. Write a Python script to generate divisors of a number.
23. Mersenne numbers that are prime numbers.
24. Write a program to print Fibonacci series.
25. Write a program to print using a single loop.
26. Write a program to print a pattern.
27. Write a program to print different patterns.
28. Python program that reads a line of text and processes it.
29. Python program that counts the number of occurrences of characters.
30. Python program that reads a string and displays it in different formats.