

**JAYPEE UNIVERSITY OF ENGINEERING & TECHNOLOGY, GUNA**  
**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**  
**Computer Programming Lab (14B17CI171)**  
**B.Tech. (CSE/ECE/MECH/CE/CHE) Semester-I**

Lab Practice 7

- 1) Write a Program (WAP) to add two numbers and display/print the sum
- 2) Write a C program that takes two numbers as an input and print the average them.
- 3) Write program that takes 3 digit number as an input. Program should compute and display the sum of digits in a number.
- 4) Write a C program to print the sum of n natural numbers.  
The sum of first 'n' natural no`s-  
$$1+2+3+\dots+n=n*(n+1)/2$$
- 5) Write a C program to print the sum of the square of n natural numbers. The sum of squares of first 'n' natural no`s-  
$$1^2+2^2+3^2+\dots+n^2=n*(n+1)*(2n+1)/6$$
- 6) Write a C program to print the sum of the cube of n natural numbers.  
The sum of cubes of first 'n' natural no`s-  
$$1^3+2^3+3^3+4^3+\dots+n^3=(n^2 * (n+1)^2)/4$$
- 7) Write a C program to convert a given number of days into months and days.
- 8) Temperature of a city in Fahrenheit degrees is input through the keyboard. Write a C program to convert this temperature into Centigrade degrees.  
$$[ C = (F - 32) / 1.8 ]$$
- 9) The length & breadth of a rectangle and radius of a circle are input through the keyboard. Write a C program to calculate the area & perimeter of the rectangle, and the area & circumference of the circle.
- 10) Two numbers are input through the keyboard into two locations C and D. Write a C program to interchange the contents of C and D.  
(a) using third variable (b) without using third variable
- 11) If a three-digit number is input through the keyboard. Write a C program to reverse the number.
- 12) The distance between two cities (in km.) is input through the keyboard. Write a C program to convert and print this distance in meters, feet, inches and centimeters.  
(Hint: 1 meter = 3.281 feet)
- 13) If a four-digit number is input through the keyboard. Write a C program to obtain the sum of the first and last digit of this number.
- 14) Write a C program to find the gross salary of an employee  
Gross salary = base salary + DA + HRA+Bonus  
DA= 40 % of the base salary, HRA=80% of DA, and Bonus= 25% of HRA.  
Ask user to enter the base salary only.