**Lab Assignment- ICP**

1. Program to compute area and circumference of a circle
2. Write a program which takes marks of five students as input and computes the average marks. Print the average mark of five students.
3. Write a program to compute roots of a quadratic equation

ax2 + bx + c = 0

1. Write a program to solve two linear equations

2x + 8y – 10 = 0

5x + 6y – 5 = 0

1. Write a program for calculating the gross salary of a employee if his basic salary is input through the keyboard. if basic salary is less than Rs.1500 then HRA = Rs. 500 and DA = 90% of basic. If salary is equal or greater than 1500 then HRA = 10% and DA = 95% of basic salary.
2. Checking a character whether it is capital letter or small letter or special symbol
3. Write a program to determine whether a number is odd or even and print the appropriate message.
4. Write a program to find the smallest of the three numbers.
5. Write a program to determine whether the input year is a leap year or not.
6. Write a program that takes the ***x-y***coordinates of a point in the Cartesian plane and prints e message telling either an axis on which the point lies or the quadrant in which it is found.
7. Write a program to reverse a three digit decimal number and determine whether the two numbers are equal or not.
8. Write a program to add the digits of a number. Let the number is of 4 digits only.
9. Write a program to convert a decimal number ranging from 1 to 7 into binary.
10. Write a program to calculate area of a circular ring.
11. Write a program to produce a multiplication table of:

1 2 3 4 5 6 7 8 9 10 11 12

2 4 6 8 10 12 14 16 18 20 22 24

3 6 9 12 15 18 21 24 27 30 33 36

4 8 12 16 20 24 28 32 36 40 44 48

5 10 15 20 25 30 35 40 45 50 55 60

6 12 18 24 30 36 42 48 54 60 66 72

7 14 21 28 35 42 49 56 63 70 77 84

8 16 24 32 40 48 56 64 72 80 88 96

9 18 27 36 45 54 63 72 81 90 99 108

10 20 30 40 50 60 70 80 90 100 110 120

11 22 33 44 55 66 77 88 99 110 121 132

12 24 36 48 60 72 84 96 108 120 132 144

1. [Write a program to get following output: A B C D E F G F E D C B A A B C D E F F E D C B A](http://www.answerbag.com/q_view/2085335)
2. Write a program to compute followings

http://www.ucl.ac.uk/Mathematics/geomath/level2/series/ln2.gif

http://www.ucl.ac.uk/Mathematics/geomath/level2/series/ln3.gif