Lab assignment 1   **Date:**

M. Sc. 2nd year (fourth semester)

Group A & B

1. Write a program to double the second last digit. E.g., input 23613 output 23623 (assume that the second last digit is less than 5).
2. Read two numbers. Find their product after exchanging last digits. Input 4270 and 153 output 640950 (4273*150).
3. Read a number. Reverse the number and hence find the first digit of the input number. For input 27913, outputs are 31972 and 2.
4. Read a number and find those digits which are multiple of 3. For example if 23617 is input then outputs: 6, 3.
5. Write a program which reads a, b, c. Let ax + by + c=0 is a straight line. Hence find the area of the triangle which is formed with the co-ordinate axes x and y.
6. Read a number and find the biggest digit of it. Also find the position of the biggest digit from the beginning. Input 49562, Output: biggest digit=9 and position 2.
7. Read a number and find first even digit from the beginning and corresponding position. Input 56128, output 6 and position 2.
8. Write a program which reads a, b, and c. Let $x^2 + y^2 + 2ax + 2by + c = 0$ is the equation of a circle. Find its centre and radius.