

## Assignment 1

With Abstract class create shape as base class with function to calculate Area. Accept height and width in constructor

Create classes for Square, rectangle, Triangle to calculate area. These classes should only give the implementation of area function and no other member should be present in the class.

## Assignment 2

Accept int value and ask user the representation to display.

Octal, hex, binary. Accordingly show output.

## Assignment 3

1. Write an expression that checks if given integer is odd or even.
2. Write a boolean expression that checks for given integer if it can be divided (without remainder) by 7 and 5 in the same time.
3. Write an expression that checks for given integer if its third digit (right-to-left) is 7. E. g. 1732 à true.
4. Write a boolean expression for finding if the bit 3 (counting from 0) of a given integer is 1 or 0.
5. Write an expression that checks if given point (x, y) is within a circle K(O, 5).
6. Write a program that exchanges bits 3, 4 and 5 with bits 24,25 and 26 of given 32-bit unsigned integer.