

## Sheet # 5

1. Implement  $\ll$  operator,  $\gg$  operator,  $/$  operator, unary negation operator,  $\ast$  operator, and  $!=$  operator for the Ratio class which contains data members  $n, d$  as int.
2. Implement  $\ll$  operator,  $\gg$  operator,  $+$  operator, and  $\leq$  operator for Vector class which contains the data member  $v[10]$  as int.
3. Implement  $\ll$  operator,  $\gg$  operator,  $\ast$  operator,  $+=$  operator, and  $=$  operator for Complex class which contains data members  $r, n$  as float.
4. Implement  $\ll$  operator,  $\gg$  operator,  $++$  (post, prefix) operators for Point class which contains data members  $x, y, z$  as float.
5. Implement  $\ll$  operator,  $\gg$  operator,  $+$  operator,  $+$  constant operator, and  $=$  operator for Matrix class ( $n \times n$  matrix).