

## Assignment 1.

Software Engineering(2<sup>nd</sup> semester)

Q1. Write a program to define an enumerated data type Month with name of 12 months. Assign first month as 1 and display the integer value assigned to the months.

Q2. Write a program using inline function to calculate the square of a number.

Q3. Write a program to calculate volume of a cube. (vol=side\*side\*side)

Q4. Write a program using inline functions to calculate the multiplication and division of two user input numbers.

Q5. Write a program to calculate simple interest using default value of  $r=1.5\%$ . Ask the user for principal amount and time  $[SI=PTR/100]$

Q6. Write a program to find maximum of 2 numbers and maximum of 3 numbers using same function name, maximum().

Q7. Write a program to find the volume of 3 objects: cube, cylinder and Rectangular box using same function name, volume().

Q8. Write a program to find the area of cube, cylinder and rectangle using concept of function overloading.

Q9. Write and test the following computeSphere() function that returns the volume “v” and surface area “s” of a sphere with the given radius.

```
void computeSphere( float &v, float &s, float r)
```