# **Lab - 2**

1. Write a method to prompt the user to enter the radius of the circle then calculate the area and circumference of the circle.  
     
   2. Write a method to prompt the user for base-width and height of a triangle, then calculate the area of the Triangle.  
     
   3. Write a method to prompt the user for a number then display check if the number is Even or Odd.

<https://docs.oracle.com/javase/tutorial/java/nutsandbolts/if.html>  
  
4. Write a method to prompt the user for an Integer then display the same value with one decimal place. eg user enter "15 " result is: "You entered 15, the new value is 15.0".  
  
5. Write a method to prompt the user for a letter of the alphabet and display it's ascii value.  
  
6. Write a method to prompt the user for a double then display the value as a whole number. eg user enter "15 .8" result is: "You entered 15.8, the new value is 16". eg user enter "15 .4" result is: "You entered 15.4, the new value is 15".  
  
7. Write a method to prompt the user for 4 digits representing a year. Then determine If Year Is a Leap Year.  
 ****How to determine whether a year is a leap year****

To determine whether a year is a leap year, follow these steps:

1. If the year is evenly divisible by 4, go to step 2. Otherwise, go to step 5.
2. If the year is evenly divisible by 100, go to step 3. Otherwise, go to step 4.

3 .If the year is evenly divisible by 400, go to step 4. Otherwise, go to step 5.

4. The year is a leap year (it has 366 days).

5. The year is not a leap year (it has 365 days).

https://docs.microsoft.com/en-us/office/troubleshoot/excel/determine-a-leap-year