**Sona college of Technology**

**Department of Computer Science and Engineering**

**Week 1- Assignment**

**Last date to submit: .29.01.18**

1. Write a java program in which the program gives the output numbers 1 to 10 along with their square roots using while statement.
2. Write a java program to find the sum of natural numbers from 1 to 1000 using for statement.
3. Write a java program with switch statement in which strings are used as case value and display a greeting message for each of the day based on the user selection.
4. Write a Java program that reads in two floating-point numbers and tests whether they are the same up to three decimal places.
5. Write a Java program to find the number of days in a month.
6. Write a program in Java to display the multiplication table of a given integer.
7. Write a program in Java to display the n terms of odd natural number and their sum.
8. Write a program in Java to make such a pattern like a pyramid with a number which will repeat the number in the same row.

1

2 2

3 3 3

4 4 4 4

1. Write a Java program that takes the user to provide a single character from the alphabet. Print Vowel or Consonant, depending on the user input. If the user input is not a letter (between a and z or A and Z), or is a string of length > 1, print an error message.
2. In a railway reservation system, a particular bogey is allocated for women passenger. The bogey comprises 72 seats. The first preference is given to female passengers whose age is greater than or equal to 65 years. Passengers can provide their choice of seat that include (1) lower, (2) upper, (3) middle,(4) side lower and (5) side upper. Write a java code that allocates seats to the passengers according to their requests. If the number of requests exceeds the total number of seats in the bogey, it should give the message that reservation is full.