1. Write a program in Java to show the use of super and this keyword with a constructor, methods,  
   variables.

“This” keyword will work as object to current class.

Public class Duck // creating Duck class

{

Public int x; // initialization of x variable

Public String y; // initialization of y variable

Duck(int x, String y) // Duck constructor/method created

{

this.x=x; // it is referring to current class object

this.y=y; // It is referring to current class object

}

}

“Super” keywork will work as object to parent class in child class

Public class Duck

{

Public int x;

}

Public class Buck extends Duck // Buck child class is created from Duck (parent) class

{

Public int x; // Parent class variable

Buck(int a, int y) // Constructor created with child class reference

{

Super.x=a; // Super keyword used to refer child class object a with parent class object x

this.x=b; // this keyword used to referring current class object

}

}

1. Create a class Student which has some private data like name, phone number, roll number,  
   class, use getter and setters to access this private data.

Class Student

{

Private String name; // declared private data as required

Private Int Phone\_number;

Private int Roll\_number;

Private String Class\_name;

//Getter method

Public String getName() // getName method created to get the Student name

{

Return this.name; // student name from current class object

}

Public int getPhoneNumber() // getPhoneNumber method created to get the student phone number

{

Return this.Phone\_Number; // student phone number from current class object

}

//Setter method

Public void setRollNumber(int num) { // setRollNumber method created to set RollNumber

this.Roll\_number=num; // referring to current class object Roll Number

}

Public void setClassName(String classNam) { // setClassName method created to set ClassName

this.Class\_name=classNam; // referring to current class object ClassName

}

}