**Assignments for core java**

**Assignment 2**

1) Write a program to find the biggest among three numbers.

2) Write a program to find the factorial of a given number using (for,while )loops

3) Create a static variable and test all possible ways of accessing it from the same class and different class

4) Using the ordinary methods try to access static variables and test what happens.

5) A Bank gives Personal loans, Home Loans on interest. Create two classes PersonalLoan, HomeLoan .

create necessary methods and attributes for setting/getting the loan percentages, LoanAmount, Number of months, Person. Create different Objects of the class and access the methods.

6) Test Method Overloading in different ways.

7) Create the following methods

hello(int i), hello(byte i) hello(short i), hello(long i)

when you call hello(5) which method is called & why.

8) Create a Student class.

1) create a default constructor

2) over load the constructor

3) Delete the default constructor keeping the overloaded constructor and test the behavior

9) Understand the difference between object reference and Object.

10) Create a Computer class by assembling Mnitor, Keyboard, Mouse, CPU classes.

11) Create different types of Computer objects by assembling different types of (monitors,keyboard,mouse,cpu)

10) write a method **getCityByCode** which accepts a number and returns a string based on the following condition.

Number value :1 return “DELHI”

Number value : 2 return “NOIDA”

Number value : 3 return “GUARGAON”

Number value : 4 return “BANGLORE”

Any other number return “INVALIDCODE”

11) Write a class MyCalculator which contains the methods and all these methods return integers.

Add,subtract,multiply,divide

a) Which one you prefer (static/non static methods)

b) all these methods can take two parameters to six parameters

c) Create a class Employee,Student and use the above methods to calculate the salary,IT,total,average,result

d)Create a class called IncomeTaxDeductions and write a method which accepts the Employee object and returns his payable tax amount.