**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.