**Test on Java Programming**

Q.1 Write a program to create an interface Sports in which methods are getGameName(), getNoOfPlayers(),showPlayerDetails() . One interface

member variable is country1="India", country2="SA".

Make classes Cricket, football which implements this interface. In showPlayerDetails() , display details of player like CountryName,GameName PlayerName,TotalPlayers.

Q.2 Make a Class Student ,In this Class create one Inner Class as Percentage.In Percentage class a method which returns the percentage of a student.Marks of 5 subjects should be taken in the method of student.Make a method showDetails in the Student Class which shows the Percentage of the student.

Q.3 Create a class EmpDetails . Member variables of this class are EmpID, EmpName, EmpAge,EmpSalary. Create a method getDetails() which takes the details for an employee. Throw an exception if the EmpName is null ,If age is less then 18 using multi catch block.

Q.4 Create a class which takes a string as a parameter in Parameterised constructor and perform the following operations using stringBuffer class:

a) Print the reverse of the string

b) concatenate a string Hello to the string taken in the constructor

c) Compare the taken string with any string.

d) Find substring "llo" from "Hello"

Q.5 Create a Class Addition where a parameterised constructor takes a double and an integer value. Create a child class of Addition which has a constructor which passes two numbers to the constructor of the Addition class . Define a method showSum() in the child class which displays the addition of two numbers.