**Lab 6\_Final**

1. Create a class hierarchy as follows

Abstract Class BankAccount:

Subclasses: SavingsAccount, FDAccount, CheckingAccount

1. Create an Interface **ITRules:**
2. It will define 4 Income tax slabs
3. >10,000: 3%, 2) >30,000:4% 3) >75,000: 8% 4) >1,00,000: 10%
4. It will have a method **double calculateTax(double)**
5. All BankAccounts should implement ITRules and the Comparable interface.
6. The method **double calculateTax(double)** will use the double argument passed to it to calculate tax using the slabs given.
7. Modify the method addInterest() to call the method calculateTax() with the interest as the argument. The (interest-calculated tax) amount is then deposited and a variable taxDeducted is set to the amount calculated as tax.
8. For the BankAccount hierarchy. Draw a complete class diagram include all the classes made in the labs.
9. All BankAccounts should implement the Serializable interface.