**2. *Classes and Objects – Assignment***

1. Create a class *Customer*

a. Having Instance variables Customer id(int), Customer Name(String), Customer Address(String), Customer Telephone(String) and Customer Email id(String)

b. Method which generates Customer Id using a counter (static variable). Customer ID starts from 1000.

c. Constructor which takes values for the above fields(except Customer id) and sets the values

d. Method which formats the details as given below in to a string and returns the string

Customer ID : 1001

Customer Name : First Customer

Customer Address : HSR, Bangalore

Customer Email : first@melior.in

Customer Phone : 9999911111

e. Method which displays the Customer details

2. Create a Class *Account*

a. Having Instance variables for Account Number(int), Account opening date(String), Account Type(enum with constants SB, FD), Account Balance(double) and Customer(Type Customer)

b. Method which generates Account number using a counter (static variable). Account number starts from 100000.

c. Constructor which takes all Account details (except Account number) as arguments and sets the values. Account number is set using the above method.

d. Method which formats the details as given below in to a string and returns the string

Account Number : 100001

Customer ID : 1001

Account Type : SB

Account creation Date : 01/05/2011

Account Balance : Rs. 500

e. Method which displays the Account details

3. Create a Class *BankDemo*

a. Create three Customers and display their details

b. Create two Accounts of type SB with initial balance 500 for two customers.

c. Create one Account of type FD with a deposit of 5000.