Assignment 10

1. Create an interface “CreditCardInterface” with methods: viewCreditAmount(), useCard(), payCredit() and increaseLimit(). Create a class SilverCardCustomer (name, cardnumber (16 digits), creditAmount – initialized to 0, creditLimit - set to 50,000 ) which implements the above interface. Inherit class GoldCardCustomer from SilverCardCustomer having the same methods but creditLimit of 1,00,000. Create an object of each class and perform operations.

i. useCard() method increases the creditAmount by a specific amount upto creditLimit

ii. payCredit() reduces the creditAmount by a specific amount.

iii. increaseLimit() increases the creditLimit for GoldCardCustomers (only 3

times, not more than 5000Rs. each time)

1. Write a java program that extends interface by another interface.
2. Show the implementation of hybrid inheritance using interface.
3. Write a program to demonstrate divide by 0 exception. Print the exception type occurred using appropriate exception type in catch block using throws keyword. Use finally block as well.
4. Write a program to catch null pointer exception, arithmetic exception and array out of bound exception in a program which divides the current element with the next element and no operation on the last element of array and stores it in new array.