**ASSIGNMENT-9**

20BCSE50\_Kumar Jijnasu\_08\_C1\_CSE

1..

import java.util.Scanner;

class Except {

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

        System.out.print("Enter values of a and b: ");

        int a = sc.nextInt(), b = sc.nextInt();

        try

        {

            if(a-b==0)

                throw new ArithmeticException();

            else

                System.out.println("The result is: "+(double)a/(a-b));

        }

        catch(ArithmeticException e)

        {

            System.out.println(e+" Cannot divide by 0...Try another input...");

        }

        sc.close();

    }

}

2..

class MinimumBalanceException extends Exception

{

    MinimumBalanceException(String s)

    {

        super(s);

    }

}

public class Account {

*// account(){}*

    String name;

    int acc\_no;

    double balance;

    Account(String n,int accno,double bal)

    {

        name = n;

        acc\_no = accno;

        balance = bal;

        check\_exception(balance);

    }

    boolean check\_exception(double bal)

    {

        try

        {

            if(bal<500.0)

                throw new MinimumBalanceException("ERROR!!! Account balance cannot be less than 500...");

        }

        catch(MinimumBalanceException s)

        {

            System.out.println("\n"+s);

            return false;

        }

        return true;

    }

    void deposit(double amt)

    {

        balance += amt;

    }

    void withdraw(double amt)

    {

        if(check\_exception(balance-amt))

            balance -= amt;

    }

    public static void transfer(Account ac1,Account ac2,double amt)

    {

        double temp = ac1.balance;

        ac1.withdraw(amt);

        if(temp!=ac1.balance)

            ac2.deposit(amt);

    }

    void display()

    {

        System.out.println("\nNAME: "+name);

        System.out.println("ACCOUNT NO.: "+acc\_no);

        System.out.println("BALANCE: "+balance);

    }

}

class AccountDriver

{

    public static void main(String[] args) {

        Account ac1 = new Account("jijnasu", 3578, 600);

        Account ac2 = new Account("kumar", 5050, 1000);

*// it works*

        Account.transfer(ac2,ac1,300);

        ac1.display();

        ac2.display();

*// it throws error*

        Account.transfer(ac1,ac2,600);

        ac1.display();

        ac2.display();

    }

}