Lab 5:

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IBM19CS057

```
import java.util.Scanner;
import java.lang.Math;
class Account
{   private String name;
    private double account_no;
    private char account_type;
    Private double balance;

    void getdata(char ch)
{   Scanner xx = new Scanner(System.in);
 System.out.print("Enter the name of the customer: ");
  name = xx.next();
  xx.nextline();
System.out.print("Enter the account no. of customer:");
account_no  = xx.nextDouble();
System.out.print("Enter the balance of customer:");
 balance = xx.nextDouble();
  account_type = ch;
}
 void updatebalance(double x)
 { balance = balance + x;

  }
```

```
void updatebalance1(double x)
    {   balance = balance - x;
    }
  Void  update balance 2(double x)
        {  balance = x;
        }
       double getbalance()
            {  return balance;
            }
        Void displaybalance()
{
  System.out.println("The balance is :" +balance);
  }
}
class Saving_Account extends Account{
private double interest_rate;
saving account()
{   Scanner xx = new Scanner(System.In);
    getdata('s');
    System.out.print("Enter the interest rate");
    Interest_rate = xx.nextdouble()
  }
Void getdeposit()
{ Scanner xx = new Scanner(System.in).
 System.out.print("Enter the amount to be deposited:");
 double x = xx.nextDouble();
  updatebalance(x);
  }
```

```
void computeInterest()
{ Scanner xx= new Scanner(System.in);
System.out.println("Enter the no. of yrs :");
double time= xx.nextDouble();
double x = (getbalance() * Math.pow((1+((interest_rate)
                                        /100)),time));
updatebalance2(x);
System.out.println("The computed interest is :"+x);
display balance();
}
void withdraw1()
{   System.out.println("Enter the amount to be
                                withdrawn:");
    Scanner xx=new Scanner(System.in);
    double x=xx.nextDouble();
    while(x> getbalance())
{ System.out.println("The amount withdrawn is more
        than the balance enter again :");
    xx=nextDouble();
    }
    updatebalance1(x);
    displaybalance();
}
}
class current_Account extends Account{
private double min_balance;
private int cheque_book;
current_Account()
{
    Scanner xx = new Scanner(System.in);
    getdata('c');
```

```
System.out.print("Enter the min. balance");
    min_balance = xx.nextDouble();
}
void getdeposit()
{   Scanner xx = new Scanner(System.in);
    system.out.print("Enter the amount to be deposited:");
    double x = xx.nextDouble();
    updatebalance(x);
}
void issuecheck()
   { scanner xx = new Scanner(system.in);
System.out.print("Enter the amount of check");
double x = xx.nextDouble();
if (x > (getbalance() - min_balance))
{system.out.println("You have issued a cheque of
        more than mini. bala & have been charged the penalty
                    of 100 rupees:");
    updatebalance1(100);
}
else
{   updatebalance1(x);
}
displaybalance();
}
void withdrawl()
{   System.out.print("Enter the amt. to be with
                    drawn:");
Scanner xx = new Scanner(syste.in);
double x = xx.nextDouble();
while (x > (getbalance() - min balance))
{   system.out.println("Amt. withdrawn is more th
                    balance enter again");
    x = xx.nextDouble();
}
```

```
updateBalance1(x);
displayBalance();
}
}
```