# Department of Computing

**CS-213: Advanced Programming**

**Class: BSCS 7AB**

# Lab Quiz # 01

# Task

Write a program of bank management system to manage the account information using inheritance concept.

Create a class “Bank Account” with the customer\_name, account\_number etc. as member variables. Create the derived classes for two types of accounts i.e. current and saving. The derived classes will update the balance and handle the deposit and withdraw cases. Customers should be able to get updated balance after deposit and withdrawal amounts.

**Answer:**

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| Solution |
| Task Code:  package labquiz1;  import java.util.\*;  import java.io.\*;    public class Labquiz1 {  public static void main(String[] args) {  int choice1,choi;  current cust1= new current ("Suhaib",21029,3200);  saving cust2= new saving("Ismail",21039,2102);      System.out.println("do you have current or savings account?");  System.out.println("1)Current");  System.out.println("2)Saving");  Scanner sc=new Scanner(System.in);  choice1=sc.nextInt();  if (choice1==1){  System.out.println("Do you wanna Withdraw or deposit?");  System.out.println("1)Withdraw");  System.out.println("2)Depsoit");  choi=sc.nextInt();  if (choi==1){  cust1.withdrawl();  cust1.getbalance();  }  else if (choi==2){  cust1.deposit();  cust1.getbalance();  }  }  if (choice1==2){  System.out.println("Do you wanna Withdraw or deposit?");  System.out.println("1)Withdraw");  System.out.println("2)Depsoit");  choi=sc.nextInt();  if (choi==1){  cust2.withdrawl();  cust2.getbalance();  }  else if (choi==2){  cust2.deposit();  cust2.getbalance();  }  }  }    }  class Bank\_Account  {  int account\_num;  String customer\_name;  double balance;  public Bank\_Account(){  customer\_name="";  account\_num=0;  balance=0;  }  public Bank\_Account(String customer,int account,double balanc){  customer\_name=customer;  account\_num=account;  balance=balanc;  }  public double getbalance(){  return balance;  }  }  class current extends Bank\_Account{    public current(){  super();    }  public current(String customer,int account,double balanc){  super.customer\_name=customer;  super.account\_num=account;  super.balance=balanc;  }  public void deposit(){  System.out.println("Amount to be deposited in"+ super.account\_num+"?");  Scanner sc=new Scanner(System.in);  int amount=sc.nextInt();  super.balance=super.balance+amount;  System.out.println("Amount has been deposited");  }  public void withdrawl(){  System.out.println("Amount to be withdrawl in"+ super.account\_num+"?");  Scanner sc=new Scanner(System.in);  int amount=sc.nextInt();  super.balance=super.balance-amount;  System.out.println("Amount has been withdrawled");  }    }  class saving extends Bank\_Account{  double limit;  public saving(){  super();  limit=500;  }  public saving(String customer,int account,double balanc){  super.customer\_name=customer;  super.account\_num=account;  super.balance=balanc;  }    public void deposit(){  System.out.println("Amount to be deposited in"+ super.account\_num+"?");  Scanner sc=new Scanner(System.in);  int amount=sc.nextInt();  super.balance=super.balance+amount;  System.out.println("Amount has been deposited");  }  public void withdrawl(){  System.out.println("Amount to be withdrawl in"+ super.account\_num+"?");  Scanner sc=new Scanner(System.in);  int amount=sc.nextInt();  if (amount<limit){  super.balance=super.balance-amount;  System.out.println("Amount has been withdrawled.");  }  else if(amount>limit){  System.out.println("You cannot withdraw amount this much.");  }    }  }  Task Output Screenshot: |

### Deliverables

Compile a single word document by filling in the solution part and submit this Word file on LMS.