# Department of Computing

**CS-213: Advanced Programming**

**Class: BSCS 7AB**

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# 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 bank.account;  public class BankAccount {  private String customer\_name;  private int account\_number ;  private double balance;      public BankAccount(String name , int ac,double bal){  this.customer\_name=name;  this.account\_number=ac;  this.balance=bal;    }      public String getCustomer\_name() {  return customer\_name;  }    public void setCustomer\_name(String customer\_name) {  this.customer\_name = customer\_name;  }    public int getAccount\_number() {  return account\_number;  }    public void setAccount\_number(int account\_number) {  this.account\_number = account\_number;  }  public double getBalance() {  return balance;  }    public void setBalance(double balance) {    if(this.balance<0){  this.balance=0;}  else{  this.balance = balance;}  }        public void print(){    System.out.println("Customer name: "+this.getCustomer\_name());  System.out.println("Account Number: "+this.getAccount\_number());  System.out.println("Balance: "+this.getBalance());    }            }  package bank.account;  public class current extends BankAccount{    private double withdraw=0;  private double deposit=0;    public current(String name , int ac,double bal){    super(name,ac,bal);    }        public void deposit(double amount){  deposit=amount;  setBalance(getBalance()+amount);    }  public void withdraw(double amount){  withdraw=amount;  setBalance(getBalance()-amount);    }  public void print(){    super.print();        }  }  package bank.account;  public class savings extends BankAccount{    private double withdraw=0;  private double deposit=0;    public savings(String name , int ac,double bal){    super(name,ac,bal);    }      public void deposit(double amount){  deposit=amount;  setBalance(getBalance()+amount);    }  public void withdraw(double amount){  withdraw=amount;  if(amount<=1000){  setBalance(getBalance()-amount);  }  else{  System.out.println("Withdraw not Possible");  }      }  public void print(){    super.print();        }  }  package bank.account;  public class main {    public static void main(String [] args){    BankAccount acc1 = new current( "Tayyab" , 11557766 , 50000.0);    BankAccount acc2 = new savings("Muhammad Tayyab" , 11447766 , 700000.0);    System.out.println(" \*\*\*\*\*\*\*\*\*\*\*");  acc1.print();  System.out.println("\*\*\*\*\*\*\*\*\*\*\*");  acc2.print();  System.out.println("\*\*\*\*\*\*\*\*\*\*\*");    }    }  Task Output Screenshot: |

### Deliverables

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