

WEEK-6

Create a class Account that stores customer name, account number and type of account.

From this

derive the classes Cur-acct and Sav-acct to make them more specific to their requirements. Include the

necessary methods in order to achieve the following tasks.

- a) Accept deposit from customer and update the balance./ b) Display the balance.**
- c) Compute and deposit interest.**
- d) Permit withdrawal and update the balance.**

Check for the minimum balance, impose penalty if necessary and update the balance

```
import java.util.Scanner;
class account{
    Scanner sc=new Scanner(System.in);
    String name;
    int acct_no;
    int balance,deposit;
    // String type;

    void deposit()
    {
        System.out.println("Enter amount for deposit\n");
        int amount=sc.nextInt();
        balance+=amount;
        System.out.println("deposit is successfull\n do you want to check your balance");
        System.out.println("1.YES\n2.NO");
        int choice=sc.nextInt();
        check_balance();
    }
    void details()
    {
        System.out.println("Name: "+name);
        System.out.println("account_no: "+acct_no);
        System.out.println("balance :"+balance);
    }
    void check_balance()
    {
        System.out.println("Balance is "+balance);
    }
}
class savings extends account
{
    int intrest;
    savings(String n,int a,int d)
    {
```

```

        name=n;
        acct_no=a;
        deposit=d;
        balance=deposit;
    }
    void details()
    {
        System.out.println("Account_type: Savings");
        super.details();
    }
    void withdrawal()
    {
        System.out.println("Enter amount for withdrawal\n");
        int amount=sc.nextInt();
        if(balance<amount)
            System.out.println("You can withdraw the amount less than "+balance);
        else
        {
            balance=balance-amount;
            System.out.println("withdrawal is successful");
            System.out.println("\nDo you want check your balance\n");
            System.out.println("1.YES\n2.NO");
            int choice=sc.nextInt();
            if(choice==1)
                check_balance();
            return;
        }
    }
}
class current extends account
{
    int cheque_no;
    current(String n,int a,int d)
    {
        name=n;
        acct_no=a;
        deposit=d;
        balance=deposit;
    }
    void details()
    {
        System.out.println("Account_type: Current");
        super.details();
    }
    void withdrawal()
    {
        System.out.println("Do you have cheque");
        System.out.println("1.YES\n2.NO");
        int choice1=sc.nextInt();
        if(choice1==1)

```

```

    {
        System.out.println("enter check number");
        cheque_no=sc.nextInt();
    }
    System.out.println("Enter amount for withdrawal\n");
    int amount=sc.nextInt();
    if(balance<amount)
    System.out.println("You can withdraw the amount less than "+balance);
    else
    {
        balance=balance-amount;
        System.out.println("withdrawal is successfull..!!!!!! \nparty leda "+name);
        System.out.println("Do you want check your balance\n");
        System.out.println("1.YES\n2.NO");
        int choice=sc.nextInt();
        if(choice==1)
        check_balance();
        return;
    }
}
}
class Main
{
    public static void main(String[] args)
    {
        Scanner sc=new Scanner(System.in);
        String name;
        int acct_no;
        int deposit;
        int choice;
        System.out.println("Enter your name\n");
        name=sc.nextLine();
        System.out.println("Type of account\n");
        System.out.println("1.current\n2.Savings");
        choice=sc.nextInt();
        if(choice==2)
        {
            System.out.println("Enter amount for deposition and minimum ampunt 1000
rupees\n");
            deposit=sc.nextInt();
            System.out.println("Create account number \n");
            acct_no=sc.nextInt();
            savings s=new savings(name,acct_no,deposit);
            while(true)
            {
                System.out.println("\nEnter your choice\n1.depost\n2.withdrawal\n3.Details of
account\n4.exit\n");
                int ch=sc.nextInt();
                if(ch==1)
                s.deposit();
            }
        }
    }
}

```

```

        else if(ch==2)
        {
            s.withdrawal();
        }else if(ch==3)
        {
            s.details();
        }
        else if(ch==4)
            break;
        else
        {
            System.out.println("Invalid Choice..!!!!\n");
        }
    }
}
else
{
    System.out.println("Enter amount for deposition\n");
    deposit=sc.nextInt();
    System.out.println("Create account number \n");
    acct_no=sc.nextInt();
    current c=new current(name,acct_no,deposit);
    while(true)
    {
        System.out.println("Enter your choice\n1.deposit\n2.withdrawal\n3.Details of
account\n4.exit");
        int ch=sc.nextInt();
        if(ch==1)
            c.deposit();
        else if(ch==2)
        {
            c.withdrawal();
        }else if(ch==3)
        {
            c.details();
        }
        else if(ch==4)
            break;
        else
        {
            System.out.println("Invalid Choice..!\n");
        }
    }
}
}
}
}

```

Enter your name

Type of account

1.current

2.Savings

1

Enter amount for deposition

8900

Create account number

57489

Enter your choice

1.depost

2.withdrawal

3.Details of account

4.exit2

Do you have cheque

1.YES

2.NO

2

Enter amount for withdrawal

3444

withdrawal is successfull..

Do you want check your balance

1.YES

2.NO

1

Balance is 5456

Enter your choice

1.depost

2.withdrawal

3.Details of account

4.exit