```java
import java.io.*;
import java.lang.*;
import java.util.*;
abstract class account
{
    String name;
    String acc_no;
    String type;
    double balance;

    account(String n,String a,String t,double b)
    {
        name=n;
        acc_no=a;
        type=t;
        balance=b;
    }
    abstract void deposit();
    abstract void display();
    abstract void withdraw();
    abstract void fine();
    abstract void inter();
}

class curr_acc extends account
{
    curr_acc(String n,String a,String t,double b)
    {
        super(n,a,t,b);
    }

    void fine()
    {
        if(balance<500)
        {
            System.out.println("You Will Be Fined 200Rs Because Minimum balance In
Your Account Must be 500");
            balance=balance-200;
            display();
        }
        else
        {
            System.out.println("You Will Not Be Charged Any Fine");
            display();
        }
    }


    void display()
    {
        System.out.println("Name Of the Account Holder is  " + name);
        System.out.println("Account Number of the Account Holder is " + acc_no);
        System.out.println("Type Of the Account od the Account Holder is " +
type);
        System.out.println("Balance In Your Account is " + balance);
    }

    void deposit()
    {
        double sum;
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the Amount You Want To Deposit ");
        sum=sc.nextDouble();
        balance=balance+sum;
```

```java
            display();
        }
    void withdraw()
    {
        double sum;
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the amount You Want To Withdraw ");
        sum=sc.nextDouble();
        balance=balance-sum;
        if(balance>500)
        {
            display();
        }
        else
        {
            System.out.println("You Cannot Withdraw This Much Amount ");
            fine();
        }
    }

    void inter()
    {
        System.out.println("Your Account Type Is Not Elgible For Any Interest ");

    }
}

class sav_acc extends account
{
    sav_acc(String n,String a,String t,double b)
    {
        super(n,a,t,b);
    }
    void display()
    {
        System.out.println("Name Of the Account Holder is  " + name);
        System.out.println();
        System.out.println("Account Number of the Account Holder is " + acc_no);
        System.out.println();
        System.out.println("Type Of the Account of the Account Holder is " +
type);
        System.out.println();
        System.out.println("Balance In Your Account is " + balance);
        System.out.println();
    }
    void withdraw()
    {
        double sum;
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the amount You Want To Withdraw ");
        System.out.println();
        sum=sc.nextDouble();
        balance=balance-sum;
        display();
    }

    void deposit()
    {
        int sum;
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the principal amount you want to submit ");
        sum=sc.nextInt();
        balance+=sum;
        display();
```

```java
    }

    void inter()
    {

        double r,t;
        double interest;
        double amount;
        double power;
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the Rate of interest ");
        r=sc.nextDouble();
        System.out.println("Enter the Year of time Account has to be elapsed ");
        t=sc.nextDouble();

        power=Math.pow((1+((r)/(100))),t);
        System.out.println(power);
        amount=balance*power;
        System.out.println(amount);
        interest=amount-balance;
        System.out.println("Interest Accumalted In Your Account is " + interest);
        display();
        System.out.println();
    }

    void fine()
    {
        System.out.println("You Have No Restriction On Your Minimum Balance Thank
You! ");
        System.out.println();
    }

}

class test1
{

    public static void main(String[] args)
    {
        account a;
        Scanner sc=new Scanner(System.in);
        String name,acc_num,typ;
        int option;
        double bal;
        System.out.println("Enter the name of the account holder ");
        name=sc.next();
        System.out.println("Enter the Account Number ");
        acc_num=sc.next();
        typ="Current Account";
        System.out.println("Enter the Minimum Balance in the account ");
        bal=sc.nextDouble();
        System.out.println();
        System.out.println("1: Current Account ");
        System.out.println("2: Savings Account ");
        System.out.println("3: Exit");
        System.out.println();
        System.out.println("Enter your choice ");
        option=sc.nextInt();

        switch(option)
        {
            case 1:
                curr_acc c=new curr_acc(name,acc_num,typ,bal);
```

```java
            a=c;
            int counter;
            do
            {
                System.out.println("1: Check For Fine ");
                System.out.println("2: Deposit ");
                System.out.println("3: Withdraw ");
                System.out.println("4: Exit");
                System.out.println();
                System.out.println("Enter Your Choice ");
                counter=sc.nextInt();
                switch(counter)
                {
                    case 1:
                        a.fine();
                        break;

                    case 2:
                        a.deposit();
                        break;

                    case 3:
                        a.withdraw();
                        break;

                    case 4:
                        System.exit(0);
                        break;

                }
            }while(counter!=4);

            break;


        case 2:
            typ="Saving account";
            sav_acc s=new sav_acc(name,acc_num,typ,bal);
            a=s;
            int cnr;
            do
            {

                System.out.println("1: Deposit ");
                System.out.println("2: Withdraw ");
                System.out.println("3: Interest");
                System.out.println("4: Exit");
                System.out.println();
                System.out.println("Enter Your Choice ");
                cnr=sc.nextInt();
                switch(cnr)
                {
                    case 1:
                        a.deposit();
                        break;

                    case 2:
                        a.withdraw();
                        break;

                    case 3:
                        a.inter();

                    case 4:
```

```
                    System.exit(0);
                    break;

                }
            }while(cnr!=5);
            break;


        case 3:
            System.exit(0);
            break;
        }
    }
}
```

OUTPUT:

```
Enter the name of the account holder
aKASH
Enter the Account Number
123we
Enter the Minimum Balance in the account
3000


1: Current Account
2: Savings Account
3: Exit

Enter your choice
1
1: Check For Fine
2: Deposit
3: Withdraw
4: Exit

Enter Your Choice
2
Enter the Amount You Want To Deposit
23456
Name Of the Account Holder is  aKASH
Account Number of the Account Holder is 123we
```

```
Type Of the Account od the Account Holder is Current Account
Balance In Your Account is 26456.0
1: Check For Fine
2: Deposit
3: Withdraw
4: Exit

Enter Your Choice
1
You Will Not Be Charged Any Fine
Name Of the Account Holder is  aKASH
Account Number of the Account Holder is 123we
Type Of the Account od the Account Holder is Current Account
Balance In Your Account is 26456.0
1: Check For Fine
2: Deposit
3: Withdraw
4: Exit
```