```
import java.util.Scanner;
abstract class Account{
	String custname;
	int accnum,acc_type;
	float balance=0;

	Account(String a,int b,int c)
	{
		custname = a;
		accnum = b;
		acc_type = c;
	}
	abstract void deposit(float d);
	abstract void withdraw(float w);
	abstract void display();
}

class Curr_acct extends Account{
	static float minBalance=1000;
	static float penalty=100;
	Curr_acct(String a,int b,int c)
	{
		super(a,b,c);

	}
	void checkMinBal()
	{
		if(balance<minBalance)
		{
			System.out.println("Penalty will be deducted since balance is
below minimum amount");
			balance-=penalty;

		}
	}
	void deposit(float d)
	{
		balance+=d;
		System.out.println("Amount added successfully");
		System.out.println("New Balance : "+balance);
	}
	void withdraw(float w)
	{
		if(balance<w)
		{
			System.out.println("Insufficient funds");
			return;
		}
		balance-=w;
		System.out.println("Amount withdrawn successfully");
		System.out.println("New balance : "+balance);
	}
	void display()
	{
		checkMinBal();
		System.out.println("Name : "+custname+"\nAccount Number :
"+accnum+"\nAccount Type : Current\nBalance : "+balance);
	}
}

class Sav_acct extends Account{
	static float interest=5;
	Sav_acct(String a,int b,int c)
	{
```

```
            super(a,b,c);
      }
      void interest()
      {
            System.out.println("5% Interest has been credited to the account");
            balance+=balance*(interest/100.0);
      }
      void deposit(float d)
      {
            balance+=d;
            System.out.println("Amount added successfully");
            System.out.println("New balance : "+balance);
      }
      void withdraw(float w)
      {
            if(balance<w)
            {
                  System.out.println("Insufficient funds");
                  return;
            }
            balance-=w;
            System.out.println("Amount withdrawn successfully");
            System.out.println("New balance : "+balance);
      }
      void display()
      {
            interest();
            System.out.println("\nName : "+custname+"\nAccount Number :
"+accnum+"\nAccount Type : Current\nBalance : "+balance);
      }

}

public class Bankmain {
      public static void main(String args[])
      {
            Scanner scr = new Scanner(System.in);
            Account a3;
            System.out.println("Enter Name:\n");
            String s = scr.next();
            System.out.println("Enter account number");
            int a=scr.nextInt();
            System.out.println("Enter Account type\n1.Savings\n2.Current");
            int b = scr.nextInt();
            if(b==1)
            {
                  Sav_acct a1 = new Sav_acct(s,a,b);
                  a3=a1;
            }
            else
            {
                  Curr_acct a2 = new Curr_acct(s,a,b);
                  a3=a2;
            }
            for(;;)
            {
                  System.out.println("\n1.Withdraw\n2.Deposit\n3.Account
Details\n4.Exit");
                  int ch = scr.nextInt();
                  switch(ch)
                  {
                        case 1:
                              System.out.println("Enter amount");
                              float w = scr.nextFloat();
```

```
                        a3.withdraw(w);
                        break;
                    case 2:
                        System.out.println("Enter amount");
                        float d = scr.nextFloat();
                        a3.deposit(d);
                        break;
                    case 3:
                        a3.display();
                        break;
                    case 4:
                        return;
                }
            }
        }
}
```

Output:

1.

```
Enter Name:

Naman
Enter account number
123
Enter Account type
1.Savings
2.Current
1

1.Withdraw
2.Deposit
3.Account Details
4.Exit
1
Enter amount
50
Insufficient funds

1.Withdraw
2.Deposit
3.Account Details
4.Exit
2
Enter amount
1000
Amount added successfully
New balance : 1000.0
```

2.

```
1.Withdraw
2.Deposit
3.Account Details
4.Exit
1
Enter amount
50
Amount withdrawn successfully
New balance : 950.0

1.Withdraw
2.Deposit
3.Account Details
4.Exit
3
5% Interest has been credited to the account

Name : Naman
Account Number : 123
Account Type : Current
Balance : 997.5

1.Withdraw
2.Deposit
3.Account Details
4.Exit
```

3.

```
Enter Name:

Naman
Enter account number
123
Enter Account type
1.Savings
2.Current
2

1.Withdraw
2.Deposit
3.Account Details
4.Exit
2
Enter amount
900
Amount added successfully
New Balance : 900.0

1.Withdraw
2.Deposit
3.Account Details
4.Exit
1
Enter amount
400
Amount withdrawn successfully
New balance : 500.0
```

4.

```
1.Withdraw
2.Deposit
3.Account Details
4.Exit
3
Penalty will be deducted since balance is below minimum amount
Name : Naman
Account Number : 123
Account Type : Current
Balance : 400.0
```