

```
Bank - Notepad
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import java.util.Scanner;

class Account
{
    Scanner ss=new Scanner(System.in);
    String acc_name;
    String acc_no;
    int acc_type;
    double balance;

    void CreateAccount()
    {
        System.out.println("Enter the Deals of the new account: ");
        System.out.printf("Name: ");
        acc_name=ss.next();
        System.out.printf("Ideal Account number: ");
        acc_no=ss.next();
        if(acc_type==1)
        {
            System.out.printf("Enter the first Deposit Value: ");
            balance=ss.nextDouble();
            System.out.println("Thank you for creating an Account.");
        }
        else
        {
            System.out.println("Enter the first Deposit Value(above 5000): ");
            balance=ss.nextDouble();
            System.out.println("Thank you for creating an Account.\nYou will shortly receive your Cheque Book.");
        }
    }

    String getAccountNo()
    {
        return acc_no;
    }
}
```

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    return acc_no;
}

void Display()
{
    System.out.println("The Account Details are given as follows: ");
    System.out.println("Name: "+acc_name);
    System.out.println("Account Number: "+acc_no);
    if(acc_type==1)
        System.out.println("Account Type: Savings Account");
    else
        System.out.println("Account Type: Current Account");
    System.out.println("Balance: "+balance);
}
}

class Sav_Acct extends Account
{
    void withdraw()
    {
        double amount;
        //System.out.println("Warning: A minimum of 5000 balance must be maintained\n\tIf failed, a penalty of Rs.100 will be imposed.");
        System.out.println("Enter the Amount to be withdrawn: ");
        amount=ss.nextDouble();
        balance-=amount;
    }

    void deposit()
    {
        double amount,interest;
        System.out.println("Enter the Amount to be Deposited: ");
        amount=ss.nextDouble();
        balance+=amount;
        interest=balance*0.01;
        balance+=interest;
    }
}

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```
}  
  
class Curr_Acct extends Account  
{  
    void withdraw()  
    {  
        double amount;  
        System.out.println("Warning: A minimum of 5000 balance must be maintained\n\tIf failed, a penalty of Rs.100 will be imposed.");  
        System.out.println("Enter the Amount to be withdrawn: ");  
        amount=ss.nextDouble();  
        balance-=amount;  
        penaltycheck();  
    }  
  
    void deposit()  
    {  
        double amount;  
        System.out.println("Enter the Amount to be Deposited: ");  
        amount=ss.nextDouble();  
        balance+=amount;  
    }  
  
    void penaltycheck()  
    {  
        if(balance<5000)  
        {  
            System.out.println("The balance is less than 5000 a penalty of Rs.100 is imposed.");  
            balance-=100;  
        }  
    }  
}
```

```
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}
}

class Bank
{
    public static void main(String args[])
    {
        Sav_Acct S_acct[]=new Sav_Acct[10];
        Curr_Acct C_acct[]=new Curr_Acct[10];
        Scanner ss=new Scanner(System.in);
        String acctno;
        int ch,i=0,j=0;
        while(true)
        {
            System.out.println("Welcome to the bank.\n");
            System.out.println("Enter the action to be performed:");
            System.out.println("1: Create a Savings Account\n2: Create a Current Account");
            System.out.println("3: Deposit \n4: Withdraw\n5: Display Balance");
            System.out.printf("Enter your choice: ");
            ch=ss.nextInt();
            switch(ch)
            {
                case 1: S_acct[i]=new Sav_Acct();
                        S_acct[i].acc_type=1;
                        S_acct[i].CreateAccount();
                        i++;
                        break;

                case 2: C_acct[j]=new Curr_Acct();
                        C_acct[j].acc_type=2;
                        C_acct[j].CreateAccount();
                        j++;
                        break;
            }
        }
    }
}
```

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    j++;
    break;

case 3: System.out.println("Enter the account number: ");
    acctno=ss.next();
    for(int k=0;k<j;k++)
    {
        if(acctno.equals(C_acct[k].getAccountNo()))
        {
            System.out.println("This Account is a Current Account.");
            C_acct[k].deposit();
        }
    }
    for(int k=0;k<i;k++)
    {
        if(acctno.equals(S_acct[k].getAccountNo()))
        {
            System.out.println("This Account is a Savings Account.");
            S_acct[k].deposit();
        }
    }
    break;

case 4: System.out.println("Enter the account number: ");
    acctno=ss.next();
    for(int k=0;k<j;k++)
    {
        if(acctno.equals(C_acct[k].getAccountNo()))
        {
            System.out.println("This Account is a Current Account.");
            C_acct[k].withdraw();
        }
    }
    for(int k=0;k<i;k++)
    {
        if(acctno.equals(S_acct[k].getAccountNo()))
        {
            System.out.println("This Account is a Savings Account.");
            S_acct[k].withdraw();
        }
    }
    break;
}
```

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        C_acct[k].withdraw();
    }
}
for(int k=0;k<i;k++)
{
    if(acctno.equals(S_acct[k].getAccountNo()))
    {
        System.out.println("This Account is a Savings Account.");
        S_acct[k].withdraw();
    }
}
/*else
{
    System.out.println("Enter a Valid Account number");
    continue;
}*/
break;

case 5: System.out.println("Enter the account number: ");
acctno=ss.next();
for(int k=0;k<j;k++)
{
    if(acctno.equals(C_acct[k].getAccountNo()))
        C_acct[k].Display();
}
for(int k=0;k<i;k++)
{
    if(acctno.equals(S_acct[k].getAccountNo()))
        S_acct[k].Display();
}
break;
}
}
}
```

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```
456
This Account is a Current Account.
Warning: A minimum of 5000 balance must be maintained
        If failed, a penalty of Rs.100 will be imposed.
Enter the Amount to be withdrawn:
2300
The balance is less than 5000 a penalty of Rs.100 is imposed.
Welcome to the bank.
```

```
Enter the action to be performed:
1: Create a Savings Account
2: Create a Current Account
3: Deposit
4: Withdraw
5: Display Balance
Enter your choice: 5
Enter the account number:
123
The Account Details are given as follows:
Name: Ishika
Account Number: 123
Account Type: Savings Account
Balance: 3183.3999999999996
Welcome to the bank.
```

```
Enter the action to be performed:
1: Create a Savings Account
2: Create a Current Account
3: Deposit
4: Withdraw
5: Display Balance
Enter your choice: 5
Enter the account number:
456
The Account Details are given as follows:
Name: Hriday
Account Number: 456
Account Type: Current Account
Balance: 4100.0
Welcome to the bank.
```

```
G:\bin\Programs>javac Bank.java
```

```
G:\bin\Programs>java Bank
```

```
Welcome to the bank.
```

```
Enter the action to be performed:
```

```
1: Create a Savings Account
```

```
2: Create a Current Account
```

```
3: Deposit
```

```
4: Withdraw
```

```
5: Display Balance
```

```
Enter your choice: 1
```

```
Enter the Details of the new account:
```

```
Name: Ishika
```

```
Initial Account number: 123
```

```
Enter the first Deposit Value: 4000
```

```
Thank you for creating an Account.
```

```
Welcome to the bank.
```

```
Enter the action to be performed:
```

```
1: Create a Savings Account
```

```
2: Create a Current Account
```

```
3: Deposit
```

```
4: Withdraw
```

```
5: Display Balance
```

```
Enter your choice: 2
```

```
Enter the Details of the new account:
```

```
Name: Hriday
```

```
Initial Account number: 456
```

```
Enter the first Deposit Value(above 5000):
```

```
6500
```

```
Thank you for creating an Account.
```

```
You will shortly receive your Cheque Book.
```

```
Welcome to the bank.
```

```
Enter the action to be performed:
```

```
1: Create a Savings Account
```

```
2: Create a Current Account
```

```
3: Deposit
```

```
4: Withdraw
```

```
5: Display Balance
```



```
Enter your choice: 3
Enter the account number:
123
This Account is a Savings Account.
Enter the Amount to be Deposited:
340
Welcome to the bank.

Enter the action to be performed:
1: Create a Savings Account
2: Create a Current Account
3: Deposit
4: Withdraw
5: Display Balance
Enter your choice: 4
Enter the account number:
123
This Account is a Savings Account.
Enter the Amount to be withdrawn:
1200
Welcome to the bank.

Enter the action to be performed:
1: Create a Savings Account
2: Create a Current Account
3: Deposit
4: Withdraw
5: Display Balance
Enter your choice: 4
Enter the account number:
456
This Account is a Current Account.
Warning: A minimum of 5000 balance must be maintained
        If failed, a penalty of Rs.100 will be imposed.
Enter the Amount to be withdrawn:
2300
The balance is less than 5000 a penalty of Rs.100 is imposed.
Welcome to the bank.

Enter the action to be performed:
1: Create a Savings Account
```

```
Enter the action to be performed:
1: Create a Savings Account
2: Create a Current Account
3: Deposit
4: Withdraw
5: Display Balance
Enter your choice: 5
Enter the account number:
123
The Account Details are given as follows:
Name: Ishika
Account Number: 123
Account Type: Savings Account
Balance: 3183.3999999999996
Welcome to the bank.
```

```
Enter the action to be performed:
1: Create a Savings Account
2: Create a Current Account
3: Deposit
4: Withdraw
5: Display Balance
Enter your choice: 5
Enter the account number:
456
The Account Details are given as follows:
Name: Hriday
Account Number: 456
Account Type: Current Account
Balance: 4100.0
Welcome to the bank.
```

```
Enter the action to be performed:
1: Create a Savings Account
2: Create a Current Account
3: Deposit
4: Withdraw
5: Display Balance
Enter your choice: 8
Welcome to the bank.
```