IbjicVYUjyg

- > 52M WadYlb[hlgi blžmi g\ci XVY UVYlc.
 - > 8YWfYU>YUWgg
 - > 8YJbYWbglfi Wifg
 - › 7fYUYa YhcXgUbXZYXgžUbXgYfhY UddfcdfUYa cXZYY
 - 9ldUb\ck'a Yacfinga UbU YXb'>UU
 - › Cilibyhyfe YcZdU<u>w</u>U Ygb>yU

71gg/g

- Shudgi UYUMA NgffYXgLbXVX Uj kf fa YhcXgL
 - > 5HIN hguxwy i lef uya Ya WigeZh Y Wige
- A Ya VMga UniVycb 1c Yn YfcZh YZ ckb.
 - HYk\cYWggfWggjUfWygUbXaYhcXgz bXWYXVnfhY_YrkcfXgUfW
 - > =bXj |Xi U cVYVyffbgltbWj Uf|UYgUbXa YhcXgL
- > 7LbgYgWbVY
 - > =bXXxMbXxblicZYUVchYf
 - FYUYXVnfb\ YflbWfli dfWggi WggL
 - , FYUYXVoladyfbYYZVYŁ

adYaYIb[Wgg

- > 7UgggUfy[fcidyX]ble'dUMU] Yg
 - 5 dWU YWHIDgUW YWJCbcZc With fYUYXWggyg
- GcifWWYZYg\UjYhYYMbglcb"UjU
 - HYYgcbYdVWVggdY''UZY
- > 5 Wgg'g' LYUVi YdfhhUWgg'gi gYXle' WWYUb'cVYWcf bgHbWcZhYWgg' hdWm

7 Leg XVVIII do

- > 5 Wgg XXWfUlcbighyMygUlmiY
 - HYMHMY bUWgg XXWfUlcbighWMg hYbla YcZh YWgg
 - HYcdicbUYINbXgVVigYbXjVVighY gidMVVgg
 - HYcdlcbU'adYaYblgWigY`ldghYblaYg`cZU`cZhYbYMZWghUhYWlgg'ladYaYbg'ladYaYbg

```
public class BankAccount extends Account
implements Serializable, BankStuff {
   // Class Body
}
```

7 Ligac Myg

- HYXWfUlcbaUnldWXYVVggacXIMgg HIVMXgHVLIZDULk\JWUMKckhY WggWbVYigYX
 - › ≠ZhYWgggXYWfYXdiVJWJfiaUniYYUWggYX VnUhni•UjUWXYhUiWbUWggJgWblUbbji ' dU<u>W</u>U Y
 - ChYikley lia UniVYUWeeyXcbinifca klhlo'leg WbH.bb['dW.U Y
 - SVgHVMVggYgVVbVVbHJbUbrhJb[hUhUbcfaU' VVgg'VVbVbHJbfHUfVYgžaYhcXgž VVbgH VLfgL
 - 7UbchY behb Llyzchigi Wegyx
 - Dicj XY Waacb b Zfa Ulcb Zfg W Wgg Yg
 - 5 WgggXWfXXbUZJidMa Jgbcigi WlggYg

7dgff Wfg

- HYWggVcXnWbHJbgUhYUghcbY WbgHi WHZk\JWgUa YhcXhUhgHgi d' UbYk JbgHbWcZUWgg
 - HYaYhcX\lghYglaYblaYlghYWgg
- J gYhYbYk'_YrkcfXkJh UWbgfi Wifle' WYUY bgHbWgcZUWbg

Class instantiation

BankAccount account = new BankAccount();

AYacfiraUt(YaYtfp>yU

- › GbW>U UXcYgbchi gYdchffgža Yacfin UXYYggYg WbbchWYUWXYbW nicf a U]V/zi gnicj YfkfffYb
- HYdfcVYag'b\ YYbhibigYUcWYX UXXYUcWYXaYacfnLfYUcXXxgbW hY>UUJhiUAUWbY\UXXgU` aYacfnaUbU YaYbh
 - Dic[flaa Yig Xc bch\ Uj Yle_YYdHUWcZhY a Ya cfinh YnUcWly Zica h Y\ YldUbX Yd MixyUcWly h

AcfYUci Habgli Vifg

- > 7cbelli Verguyi gyxle VYUYUbXbliUl-Y cVYVer
 - 5 Whelfi Wiff Ukling\left\Yella Ybla YlghY Weg Fixbelfi WiffWey! gybelfi Yt.
- > 7cbgffi Wifg\UjYbcfYhfbhdY
 - 7cbelli WifefYhfbbc j Ui YZVi lik\Ybi gYXk]h 'bYk fYhfbUfYZfYbW le hYbYk cVYWi

```
public BankAccount(String name) {
   setOwner(name);
}
```

Constructor definition

Constructor use

```
BankAccount account = new BankAccount("Joe Smith");
```

Syli Huber Urg

- HYWbgli Wifk h bc Ulia Yblg g U XXX i hVbgli Wif
- HY>UUUUEfa dej Nyguxyi h Whgfi WifebinZmi Xe behild Wim XYDYUmWhgfi Wif
- › K\YbXYJbb[UVbbgli Vlifzmi g\ci X Ugc'dfcj XYUXYI i liVbgli Vlif

GYCUH Whet Wife

- H YYa UniVY Umbi a VYf cZWbgfi Wifg kh XYMYbhitUtla YYfg
 - , HggWYXcjYfcUAb
- > 7cbgli VifgUfY Waacbing YfcUXXXle'
 Uck Zf XJMYblikUgcZbJJUhlb['
 bglibWg

```
BankAccount new_account =
   new BankAccount();

BankAccount known_account =
   new BankAccount(account_number);

BankAccount named_account =
   new BankAccount("My Checking Account");
```

7dgf Uff Y Lady

> =bUVbbgfi VifzhY_YrkcfXhggigYXle* fYMfle*chYfVbgfi VifgfbhYglaY VVbg

```
public BankAccount(String name) {
    super();
    owner = name;
}

public BankAccount() {
    this("TestName");
}

public BankAccount(String name, double initialBalance) {
    this(name);
    setBalance(initialBalance);
}
```

7cbgff WfWlbb

- › GidMWggcVYVgUfYVi]hVZfYhY
 giWVgg
 - , gidMfll[iaYbhighl]bfll[hYggidMVVggaYaVMg
- » HYZfglijbYcZmi f Wbgli Wif WbVYcbYcZ
 - , gidMflf[iaYbh]gl/
 - hpflf[iaYbhpfl/]
- Mi Which gyvch gi diffilbxh gilphy gla yvbgii vif
- › HYWadYfgiddlYgUbladlylgidYffL Whgli WifZfU Whgli Wifg

>JUXGE VEGS

- > >UVXcYgbch\UYAYVbbWchcZUXYgli Wuf ZfcVYWghUiLfYbc cb[Yf]bigY
- » 8YU'cWfcbcZa Ya cfnfg XcbY U ka UfW'm Vnfh Y>JA
 - 5 VVM fci bXdfcWggWYXhY[UVU YWYWHf fWVLaghYa Ya cfiricZi bfYMYbWXcVYVHg
 - HYUggcVUlcbVMkYYbUbcVYVilbXUbcVYVii fYZfYbW ggyj YfYXVnUggl bbl UbchYfjUi Yle: hYcVYVifYZfYbWZZfYlUadY.
 - > cVYVFYZYYWY1hi "/
 - 5bcVYWik]h bcfYMYWyggUWbXJXLYZf XYUcWicbXifb[[UVU] YWYWicb

; IMUYWYIIF

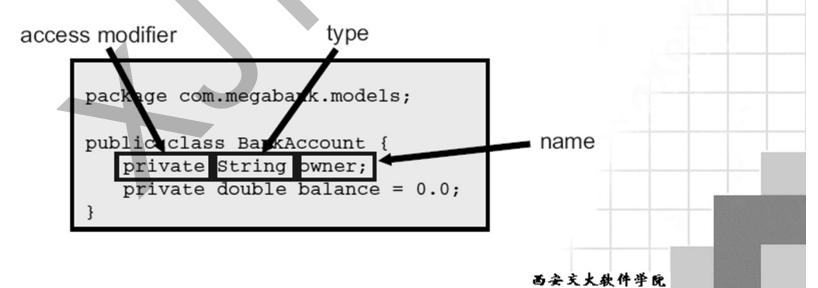
- HY[UW]YWYWifgkYkdghfci[\hY JAB gicZcVYWidMcXWMnUbXfYW]ag hYfYgcifWg\YXVnibfYMfybWXcVYVig
- > 5"cVYWYhUh Li Ybc cVYWYYMYbWgUY Y] | VYZF | UVL YW YWYb
 - FYMYDWgci hcZgWdYžcVYWgle k\JWmi \UjY UggJ bYXhi "žUbXgc Zfh
- HY>JAXYWYYKY WY WYWYY Bfib
 - Hidwinh Y UV YV YV gii bk\Yba Yacim g`ck
 - > AUnbeltyfibUtU
 - , I bdfyywwylla b

Kcf b kh hy uu yw yuf

- Mti Wbbchdfy YblfnY[UfVQ YW YWff Zca 'fi bbbb žVi hmi Wbffei Yglffle fi b'gccb
 - GrgHa'[W/
 - HggcbnUfYei YgłźbchU[i UfUhYY]
- › HYJDUmmia YncxcZubcVYWkj~VYfib' |aaYXLYmVYZfY[UVU]YWYWJcbcWWg
 - Hga YhcXg\ci XcbmYi gYXZfgfYJU WgYg fyi WUgWUbb i da YacfmUcWlcbZca bUf Y WgtYWi gYcZhYi bdYXJWY]ImcZhY[UVU] Y WYWH
 - Hb[g]_YcdbbgcWMgZZYgZUbXgcZffhg\ciX VYVWUbYXidXifb[bcfaU'dfc[fUa ZckVYZfY hYcVYWZXYYMYbWX

: **]YXg**

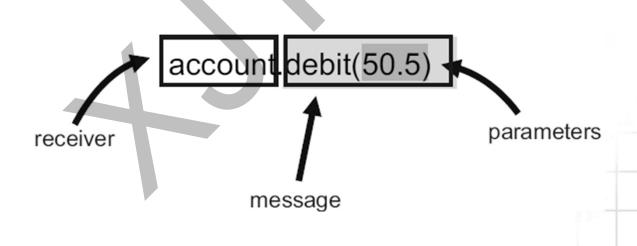
- > CVYVgfYNbgNYbZYXg
 - ›: JYXgUfYXYADYXUgdLffcZhYVVggXYADFcb
 - > 9UW]bgltbW[Yg]gckbWchicZhY]bgltbW jUJUYg
- >: |YXgVbVY|b||U|nXf|XXg|fYXk\Yb' XYVVfYX
 - » 8YZi 'lj Ui Ygk| "Wi gYX|ZYYgUYbclib||U|nXX



Ayglyg

J gYa YggL Yglc bjc_YhYVY\ Uj kfcZLb' cVYVki

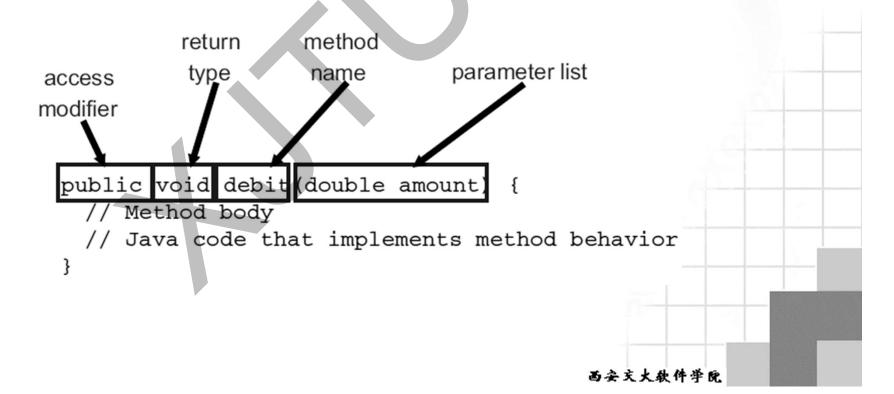
```
BankAccount account = new BankAccount();
account.setOwner("Smith");
account.credit(1000.0);
account.debit(50.5);
```



西安文大软件学院

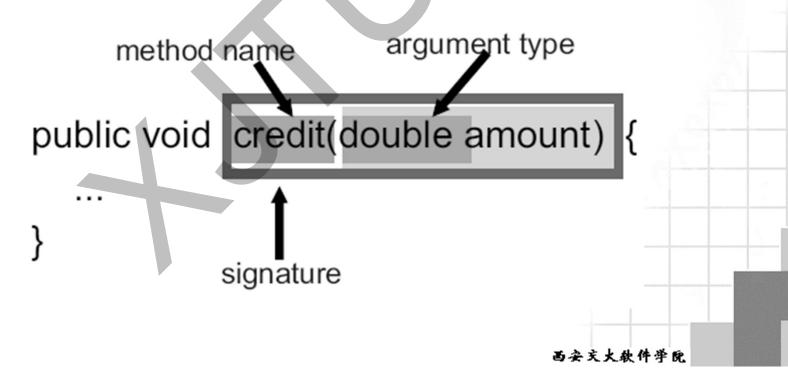
AYhcYg

- A YhcXgXYJbY\ck Ub'cVYVJYgdcbXgle' a YggU Yg
- A YhcXgXYJbYhYVY\ U]cfcZhYWgg
 - 5 a Yhc Xg VYcb le UW gg



AYhcXg bliffg

- 5 WggWb\UjYaUmaYhcXgkJh ħYglaY
 blaY
 - , 9UWa YhcXai gh U YUXMYYHig buhfy
- HYaYhcXgIbLhfYWbglgcZ
 - HYaYhcXblaY
 - , 5f ia Yhhia VYf UbXhrdYg



AYACXIIIAYYg

- > 5f[iaYblgffllflaYMgtlfYdlggYX
 - › 6mjUi YZfdfa Hj Yhdig
 - · GricVYVIFYMYMYZffYMYMWYMYg
- Dfa Ji Yj Ui Yg Whbch Yac XAXXk\Yb' dleg XXlg Ub Uf i a Ybh

```
public void method1() {
  int a = 0;
  System.out.println(a); // outputs 0
  method2(a);
  System.out.println(a); // outputs 0
}

void method2(int a) {
  a = a + 1;
}
```

Flifb Taaahckg

- A Yhc XgfYhfb Uia cglicbYj Ui YcfcbY cVYVii
 - › ZhYfYhfbhdYgjc|XzhYfYhfbgllYaYblig cdicbU
- HYfYhfb_YrkcfXlgigYXlefYhfbWblfc`le` hYW'bl a YhcX
 - HYYaUnvyy YUTYhfbyllyaYbybU aYhcXhY4girbYfYUWXk TVYYYWXX

```
public void debit(double amount) {
   if (amount > getBalance()) return;
   setBalance(getBalance() - amount);
}
```

```
public String getFullName() {
   return getFirstName() + " " + getLastName();
}
```

#jc_b[aYhc/g

- > Ht W Ta Yhc Xzi gYh Y Xchf l'cd MUcf
 - HYgla YcdMUef gi gYXle W Vch Wgg UbXbglubWa YhcXg
 - > ZhYW`gle Ua YhcXcZhYgla YWgghY XdicdMUef gbclbWgglfim

```
BankAccount account = new BankAccount();
account.setOwner("Smith");
account.credit(1000.0);
System.out.println(account.getBalance());
...
```

BankAccount method

```
public void credit(double amount) {
   setBalance(getBalance() + amount);
}
```

GYCUM a Whc Yg

- HYglaYblaYaUmYigYXZfaUm XZMfYbhaYhcXgŏlg`cb[UghYm`UjY XZMfYbhg] bUhfYg
 - , Hgg bckblgcj Ycl Yb
- › H Ydfhliffa YhcXcZGrglYa'ci l'tlfhliffi \Lg%\$XJMYhlidLfLa YMYXVVIU]cbg
 - › Vcc YUbžVVUf@VVUfZXci VYZZcUžþbich[ž CVYVEGBþ[žUbXcbYk]h bc'dLfUa YMg
 - Mi Xc bclibyyXle i gyXlMfyblia YhcXbla Yg flji Wlg~dfbKllfb[fcf~dfbl8ci VYftZfYlW XllUbdYmi a UnkUble dfbh

G Yff Y a Yhc Yg

> 5 a YhcXk h Ug blifY bXfYiifb hdY |XXb | W le Ua YhcXb h Yg Wlgg cj Yff|XYgh Ya YhcXcZh Yg dYWlgg

```
public class BankAccount {
    private float balance;
    public int getBalance() {
        return balance;
    }
}

public class InvestmentAccount extends BankAccount {
    private float cashAmount
    private float investmentAmount;
    public int getBalance() {
        return cashAmount + investmentAmount;
    }
}
```

aUbaYhcX

- > 5bUdf Wholfi bi b Ygg Ui YUgicbY Wgg \ UgUa Uhffa YhcX
- HY>JA cuguwggubxghilg y ywlcb wi Wjb hya uhuh qui gia yhcx
 - di VjWhYa YhcXWbVYWYXVhilbricVYWi
 - » glijwbc'cVYVbYYXVYVWUYXJigh
 - , jc|X bch|b| k| VYfYhfbYXZca h|gaYhcX

```
public static void main(String[] args) {
   BankAccount account = new BankAccount();
   account.setOwner(args[0]);
   account.credit(Integer.parseInt(args[1]));
   System.out.println(account.getBalance());
   System.out.println(account.getOwner());
}
```

Shuli Ukb

- Dif UYgHYWbicbinYYUWggYXIca 'a YhcXgjbhYWgg'
- > AUF_ZYZGUGGFFUYEGCFYWAYYGUY
 - · Chyfcvylgai gliwlggdfj Uygllyhfci [\'di V]Wa YhcXg

```
package com.megabank.models;

public class BankAccount {
  private String owner;
  private double balance = 0.0;
}
```

```
public String getOwner() {
  return owner;
}
```

CHIMANY

- > GUJVYYYgUbXaYhcYgVYcb[le hYVVgg
 - 7\Ub b Uj Ui YbcbYcVYWcZhUWgg Wub YghYj Ui YZf U cZhYcVYWg
- GHIM YhcXgUbXIYXgUbVYUWggYX k|hci h|bgHb|JU|b| hYVVgg
- · GHIMA YACXGUDXAYXGUFYXWIFYXi gb['AYGUIMY YACKX

```
public class MyDate {
    public static long getMillisSinceEpoch() {
        ...
    }
}
...
long millis = MyDate.getMillisSinceEpoch();
```

: JbUaYaVYg

- - HgghY>UUYgcbcZUWbglbh
- - › 5 Waacb Webj Yelfcb gle i gYcbini dd My WgY YM gjbh Yf bla Yg

```
public class MyDate {
   public static final long SECONDS_PER_YEAR =
        31536000;
   ...
}
...
long years = MyDate getMillisSinceEnoch() /
```