Dt : 25/7/2023

faq:

can we declare local variables as "static"?

 =>we cannot declare local variables as 'static',because the static variables must

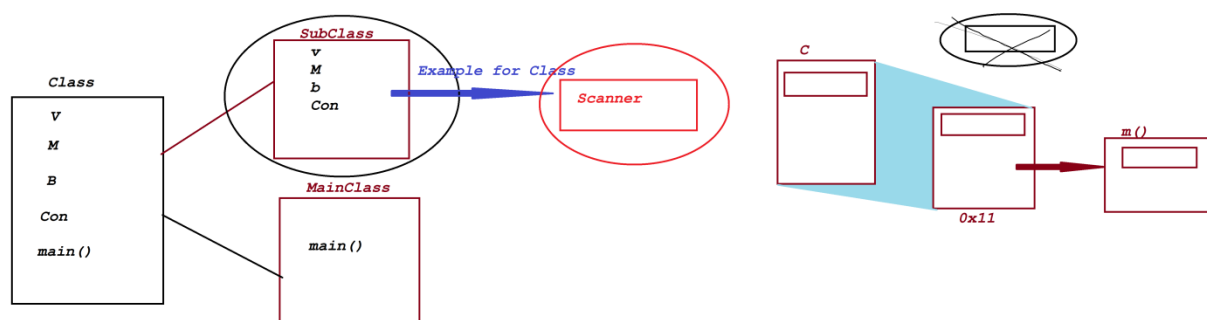*be class-level and cannot be method-level.(Compilation Error)*

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faq:

can we have Global variables in Java?

 =>There is no concept of Global Variables in Java,because the variables memories

are within the class or within the Object or within the method.

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*imp

Reading data to Java Programs:

*=>To read data to java programs,we use pre-defined methods of "Scanner"
class*

  from "util" package.(util - Utility)

 *=>The following are some important pre-defined instance methods from
'Scanner'*

  class:

   1.nextByte()

   2.nextShort()

   3.nextInt()

   4.nextLong()

   5.nextFloat()

   6.nextDouble()

   7.nextBoolean()

   8.nextLine()

 =>we use the following syntax to create object for 'Scanner' class:

   Scanner s = new Scanner(System.in);

 *=>"System.in" in Java represent connecting Console input(Keyboard) to
'Scanner'*

  class Object.

1.nextByte() : This method is used to read byte-data

Method Signature:

public byte nextByte();

syntax:

byte val = s.nextByte();

2.nextShort() : This method is used to read short-data

Method Signature:

public short nextShort();

syntax:

short val = s.nextShort();

3.nextInt() : This method is used to read int-data

Method Signature:

public int nextInt();

syntax:

int val = s.nextInt();

4.nextLong() : This method is used to read long-data

Method Signature:

public long nextLong();

syntax:

long val = s.nextLong();

5.nextFloat() : This method is used to read float-data

Method Signature:

public float nextFloat();

syntax:

float val = s.nextFloat();

6.nextDouble() : This method is used to read double-data

Method Signature:

public double nextDouble();

syntax:

double val = s.nextDouble();

7.nextBoolean() : This method is used to read boolean-data

Method Signature:

public boolean nextBoolean();

syntax:

boolean val = s.nextBoolean();

8.nextLine() : This method is used to read String-data

Method Signature:

public String nextLine();

syntax:

String val = s.nextLine();

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Ex-program : wap to read and display UserDetails?

program : DemoMethods3.java

```java
import java.util.Scanner;

class UserDetails
{
    //Instance Variables memory in Object
    String name,mId;
    long phNo;

    //Instance method
    void getUserDetails()
    {
        System.out.println("****UserDetails****");
        System.out.println("UserName="+name);
        System.out.println("MailId="+mId);
        System.out.println("PhoneNo="+phNo);
    }
}
class DemoMethods3
```

```java
{
    public static void main(String[] args)
    {
        Scanner s = new Scanner(System.in);

        UserDetails ud = new UserDetails();

        System.out.println("Enter the UserName:");

        ud.name = s.nextLine();

        System.out.println("Enter the MailId:");

        ud.mId = s.nextLine();

        System.out.println("Enter the PhoneNo:");

        ud.phNo = s.nextLong();

        ud.getUserDetails();

    }
}
```

o/p:

Enter the UserName:

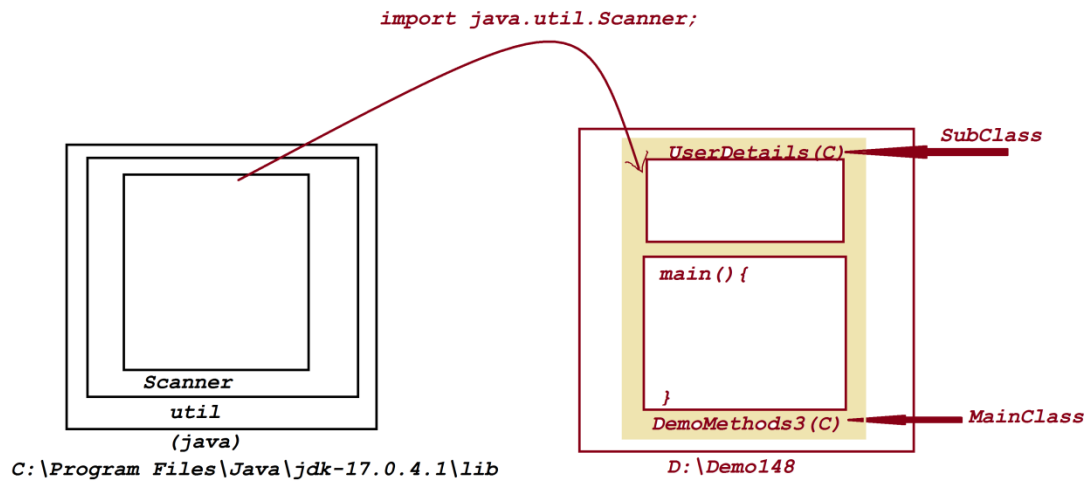nit.V

Enter the MailId:

v@gmail.com

Enter the PhoneNo:

9898981234

*****UserDetails*****

UserName=nit.V

MailId=v@gmail.com

PhoneNo=9898981234

import java.util.Scanner;

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Assignment-1:

wap to read and display Product details?

SubClass : Product

     =>code,name,price,qty

     =>void getProduct()

MainClass : DemoMethods4.java

Assignment-2:

wap to read and display Book details?

SubClass : BookDetails

    =>bCode,bName,bAuthor,bPrice,bQty

    =>void getBookDetails()

MainClass : DemoMethods5.java

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