In today's demonstration...

1. Example of *default* access modifier.
2. Example of *public* access modifier.
3. Example of *private* access modifier.
4. Example of *protected* access modifier.
5. Java access modifiers with method overloading.
6. Example of access modifiers : default, public, private and protected

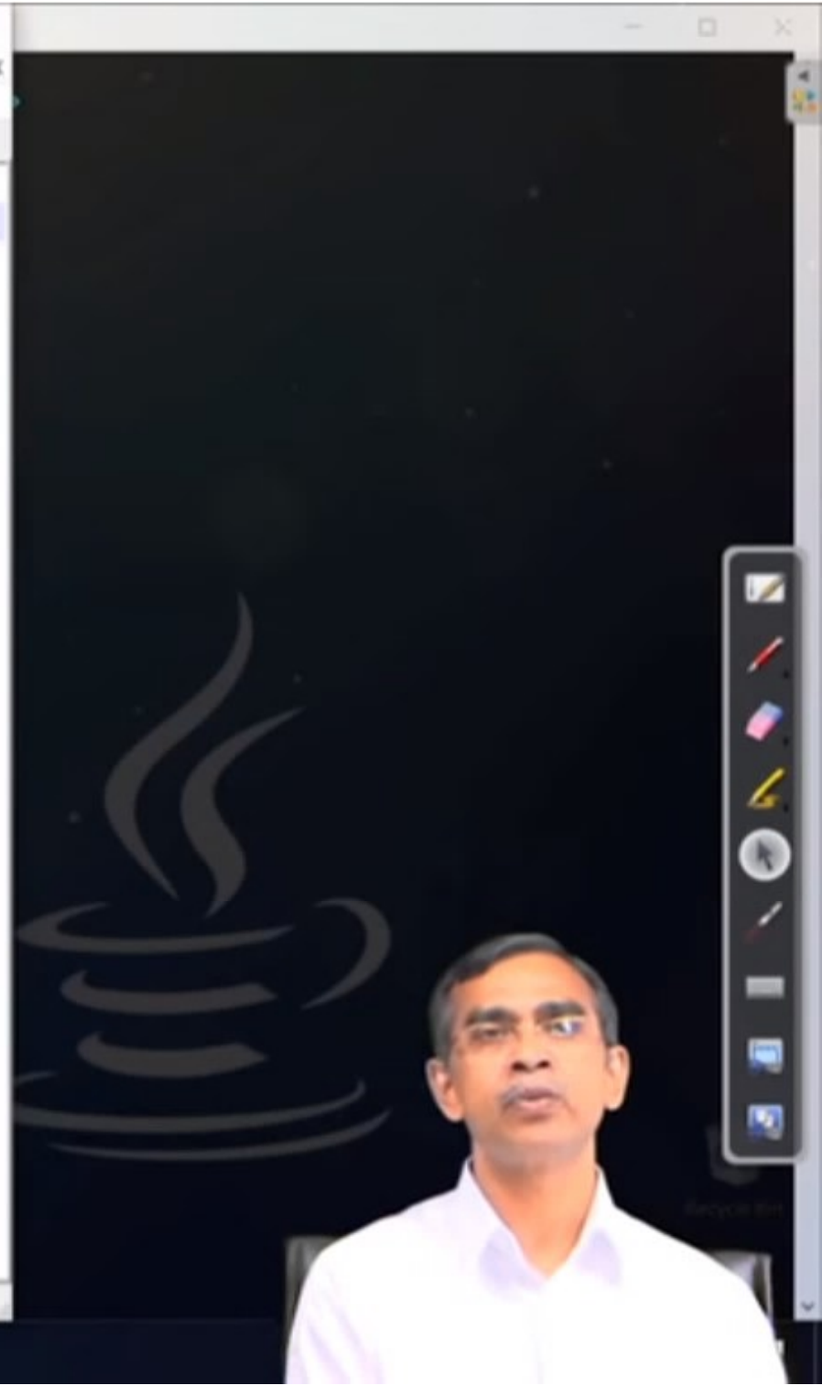
D:\Demonstration\Demonstration-VII\Demonstration_71\Demonstration_71.java - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

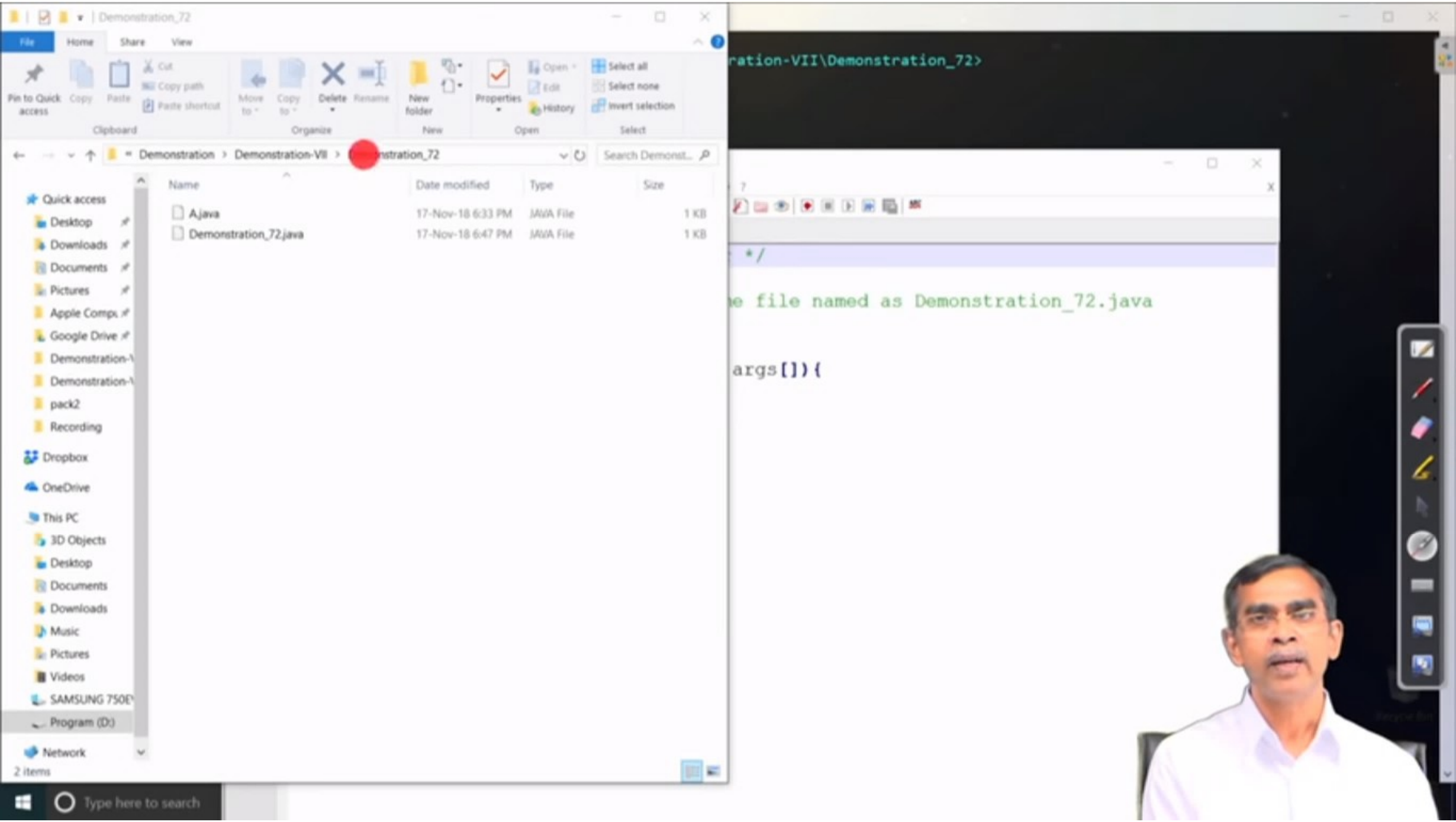
Demonstration_71.java

```
1  /* Example-1 of default access modifier */
2
3  //Save the following classes in the same file named as Demonstration_71.java
4
5     class A {
6        void msg(){System.out.println("Hi! I am in Class A");
7       }
8     }
9
10    class Demonstration_71 {
11         public static void main(String args[]){
12              A obj = new A();
13              obj.msg();
14         }
15     }
16
```

Java source file length : 397 lines : 16 Ln : 2 Col : 1 Sel : 0 | 0 Windows (CR LF) UTF-8 INS



Type here to search


Demonstration_72
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SAMSUNG 750E
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A.java
17-Nov-18 6:33 PM
JAVA File
1 KB
Demonstration_72.java
17-Nov-18 6:47 PM
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*/
e file named as Demonstration_72.java
args[]){
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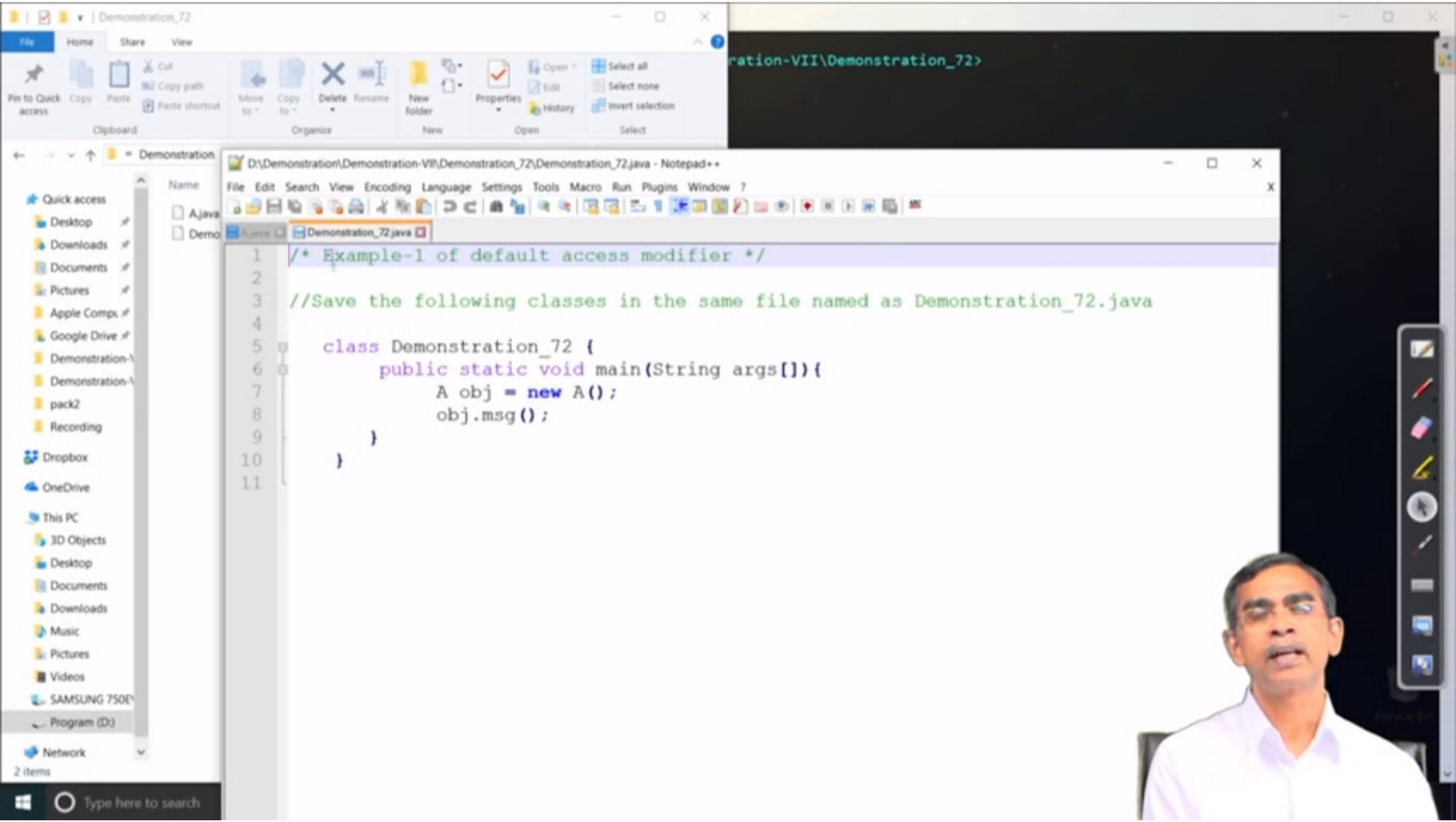
Demonstration_72
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Pin to Quick access Copy Paste Cut Copy path Paste shortcut
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Demonstration
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Program (D:)
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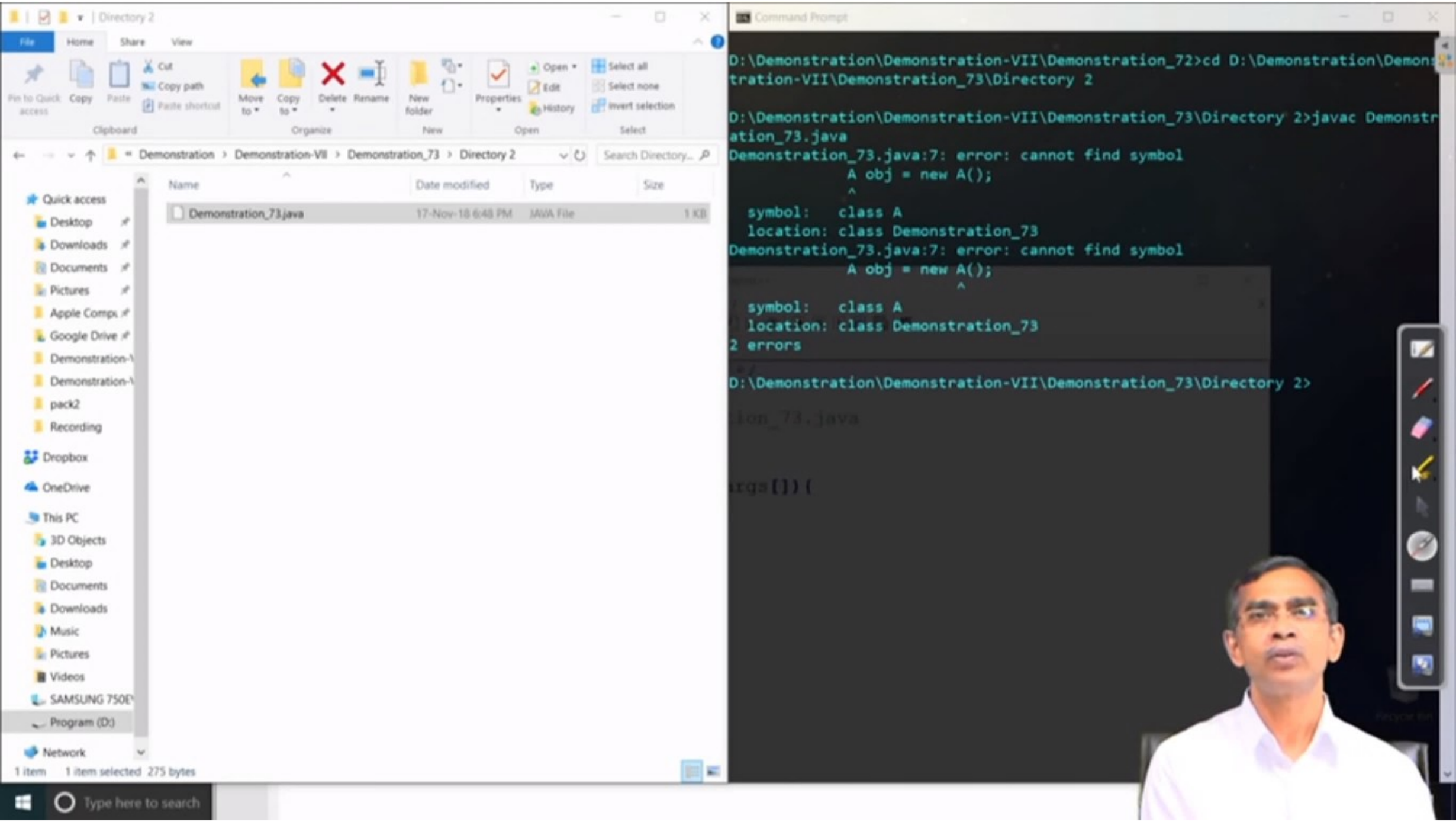
D:\Demonstration\Demonstration-VII\Demonstration_72\Demonstration_72.java - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
A.java
Demonstration_72.java
1 /* Example-1 of default access modifier */
2
3 //Save the following classes in the same file named as Demonstration_72.java
4
5 class Demonstration_72 {
6 public static void main(String args[]){
7 A obj = new A();
8 obj.msg();
9 }
10 }
11
Type here to search


Directory 2
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Demonstration › Demonstration-VII › Demonstration_73 › Directory 2
Search Directory...
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SAMSUNG 750E
Program (D:)
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Demonstration_73.java
17-Nov-18 6:48 PM
JAVA File
1 KB
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1 item selected 275 bytes
Command Prompt
D:\Demonstration\Demonstration-VII\Demonstration_72>cd D:\Demonstration\Demonstration-VII\Demonstration_73\Directory 2
D:\Demonstration\Demonstration-VII\Demonstration_73\Directory 2>javac Demonstration_73.java
Demonstration_73.java:7: error: cannot find symbol
A obj = new A();
^
symbol: class A
location: class Demonstration_73
Demonstration_73.java:7: error: cannot find symbol
A obj = new A();
^
symbol: class A
location: class Demonstration_73
2 errors
D:\Demonstration\Demonstration-VII\Demonstration_73\Directory 2>
Type here to search

pack1

File Home Share View

Cut Copy path Paste shortcut Pin to Quick access Copy Paste Clipboard

Move to Copy to Delete Rename Organize

New folder New

Properties Open Edit History Open

Select all Select none Invert selection Select

Demonstration-VII › Demonstration_74 › pack2 › pack1

Search pack1

Name	Date modified	Type	Size
A.class	17-Nov-18 6:50 PM	CLASS File	1 KB
A.java	18-Nov-18 5:09 PM	JAVA File	1 KB

Quick access
Desktop
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Demonstration-V
pack2
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SAMSUNG 750E
Program (D:)
Network

2 items 1 item selected 208 bytes

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Command Prompt

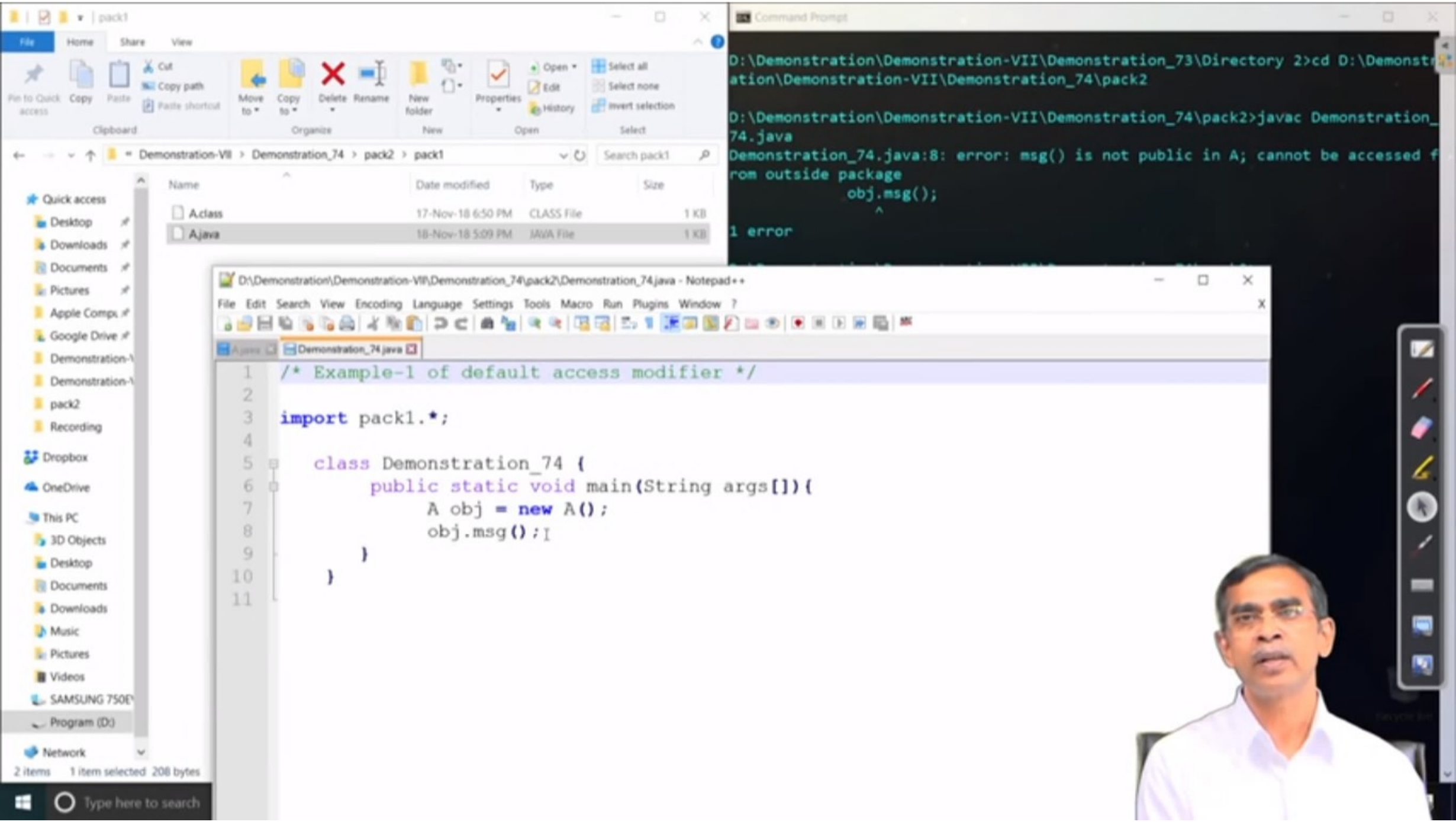
```
D:\Demonstration\Demonstration-VII\Demonstration_73\Directory 2>cd D:\Demonstration\Demonstration-VII\Demonstration_74\pack2

D:\Demonstration\Demonstration-VII\Demonstration_74\pack2>javac Demonstration_74.java
Demonstration_74.java:8: error: msg() is not public in A; cannot be accessed from outside package
            obj.msg();
                ^
1 error
```

D:\Demonstration\Demonstration-VII\Demonstration_74\pack2\pack1\A.java - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

A.java

```
1  /* Example-1 of default access modifier */
2
3  //Save the following class as A.java
4  package pack1;
5
6     public class A {
7        public void msg(){System.out.println("Hi! I am in Class A");
8        }
9     }
```


pack1
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Demonstration-VII › Demonstration_74 › pack2 › pack1
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SAMSUNG 750E
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A.class
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CLASS File
1 KB
A.java
18-Nov-18 5:09 PM
JAVA File
1 KB
2 items
1 item selected 208 bytes
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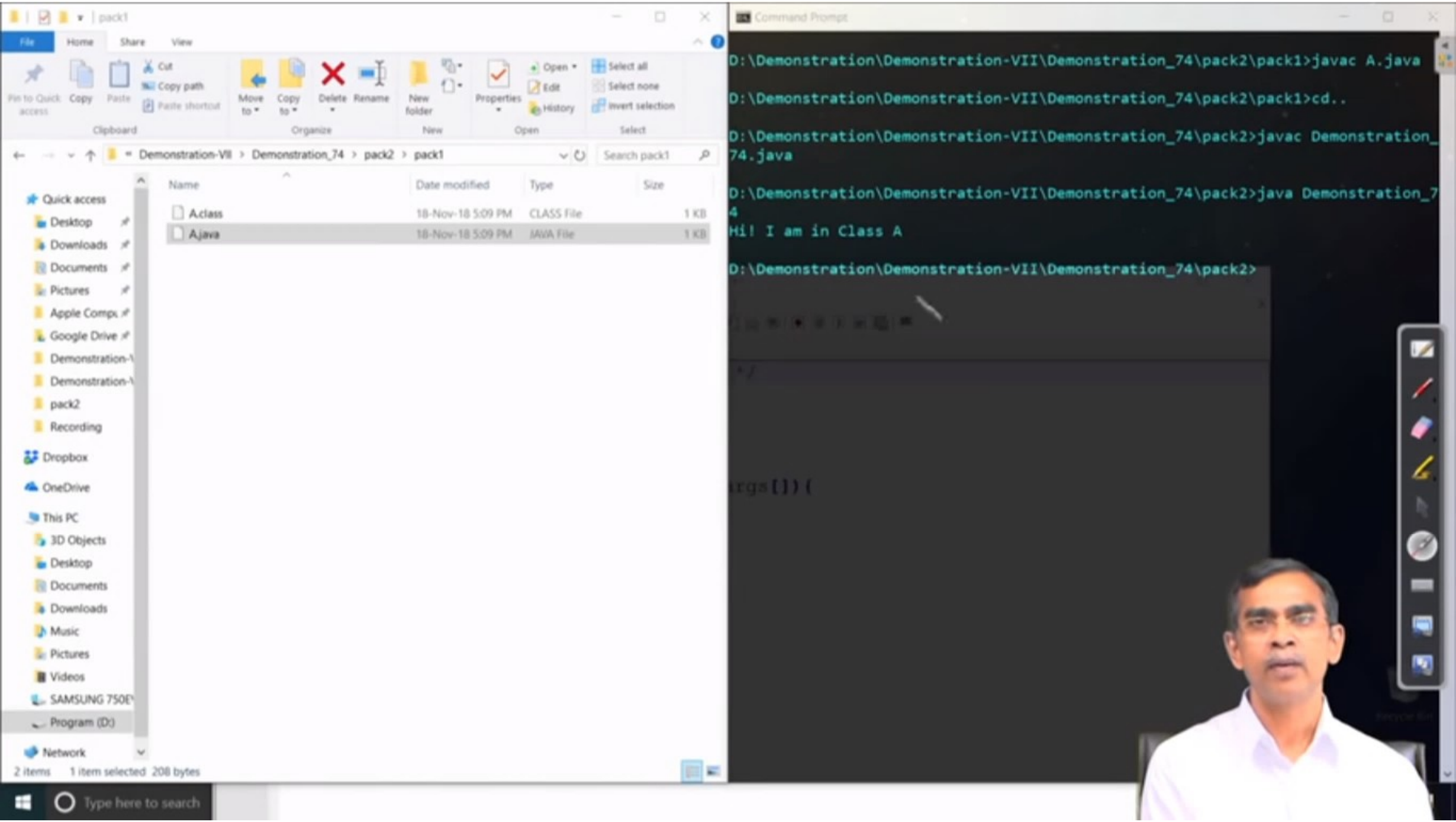
Command Prompt
D:\Demonstration\Demonstration-VII\Demonstration_73\Directory 2>cd D:\Demonstration\Demonstration-VII\Demonstration_74\pack2
D:\Demonstration\Demonstration-VII\Demonstration_74\pack2>javac Demonstration_74.java
Demonstration_74.java:8: error: msg() is not public in A; cannot be accessed from outside package
obj.msg();
^
1 error
D:\Demonstration\Demonstration-VII\Demonstration_74\pack2\Demonstration_74.java - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
A.java
Demonstration_74.java
1 /* Example-1 of default access modifier */
2
3 import pack1.*;
4
5 class Demonstration_74 {
6 public static void main(String args[]){
7 A obj = new A();
8 obj.msg();
9 }
10 }
11


pack1
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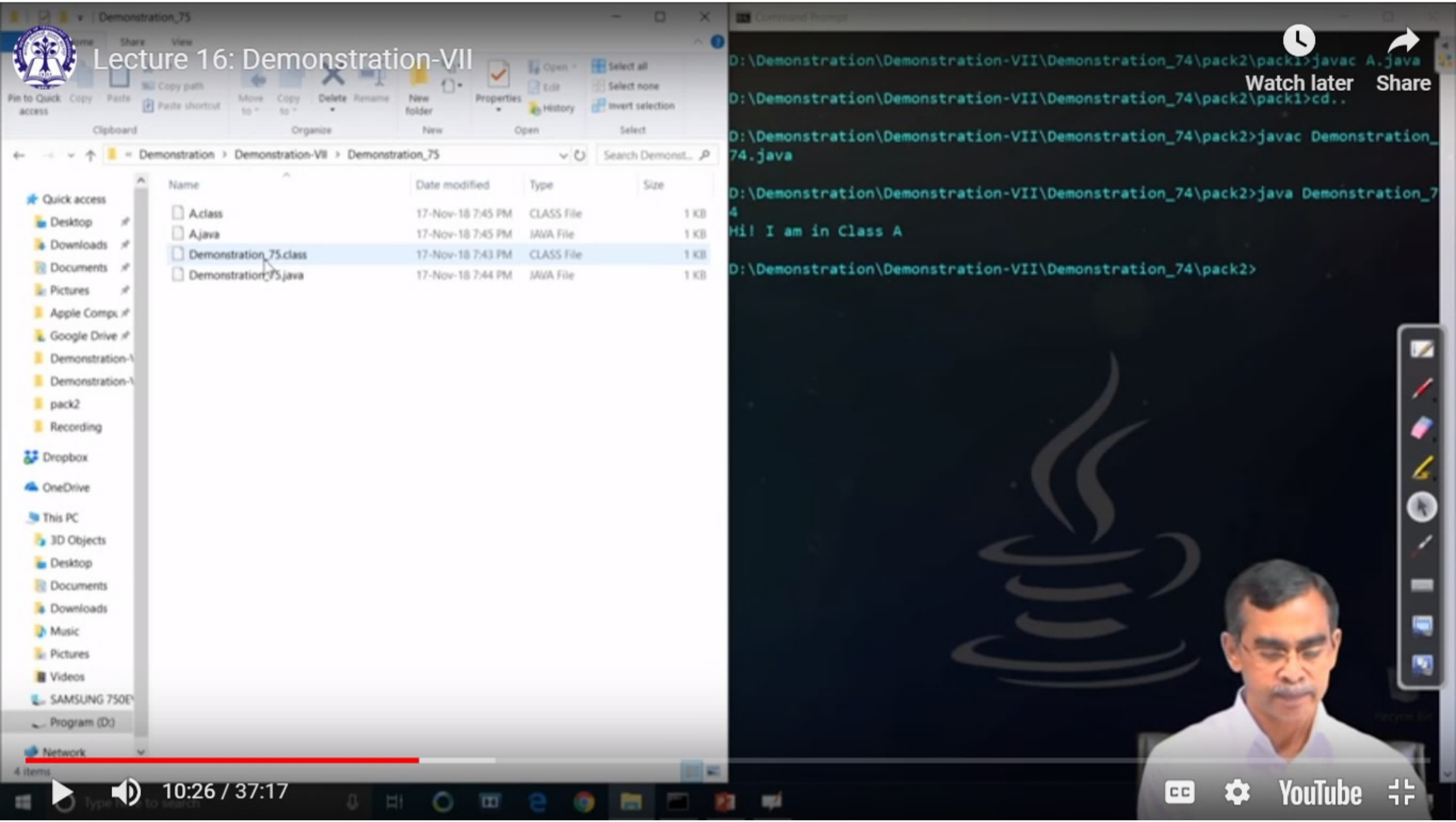
Aclass
18-Nov-18 5:09 PM
CLASS File
1 KB
Ajava
18-Nov-18 5:09 PM
JAVA File
1 KB
2 items
1 item selected 208 bytes
Command Prompt
D:\Demonstration\Demonstration-VII\Demonstration_74\pack2\pack1>javac A.java
D:\Demonstration\Demonstration-VII\Demonstration_74\pack2\pack1>cd..
D:\Demonstration\Demonstration-VII\Demonstration_74\pack2>javac Demonstration_74.java
D:\Demonstration\Demonstration-VII\Demonstration_74\pack2>java Demonstration_74
Hi! I am in Class A
D:\Demonstration\Demonstration-VII\Demonstration_74\pack2>
Type here to search


Lecture 16: Demonstration-VII
Watch later
Share
Demonstration_75
Demonstration › Demonstration-VII › Demonstration_75
Name
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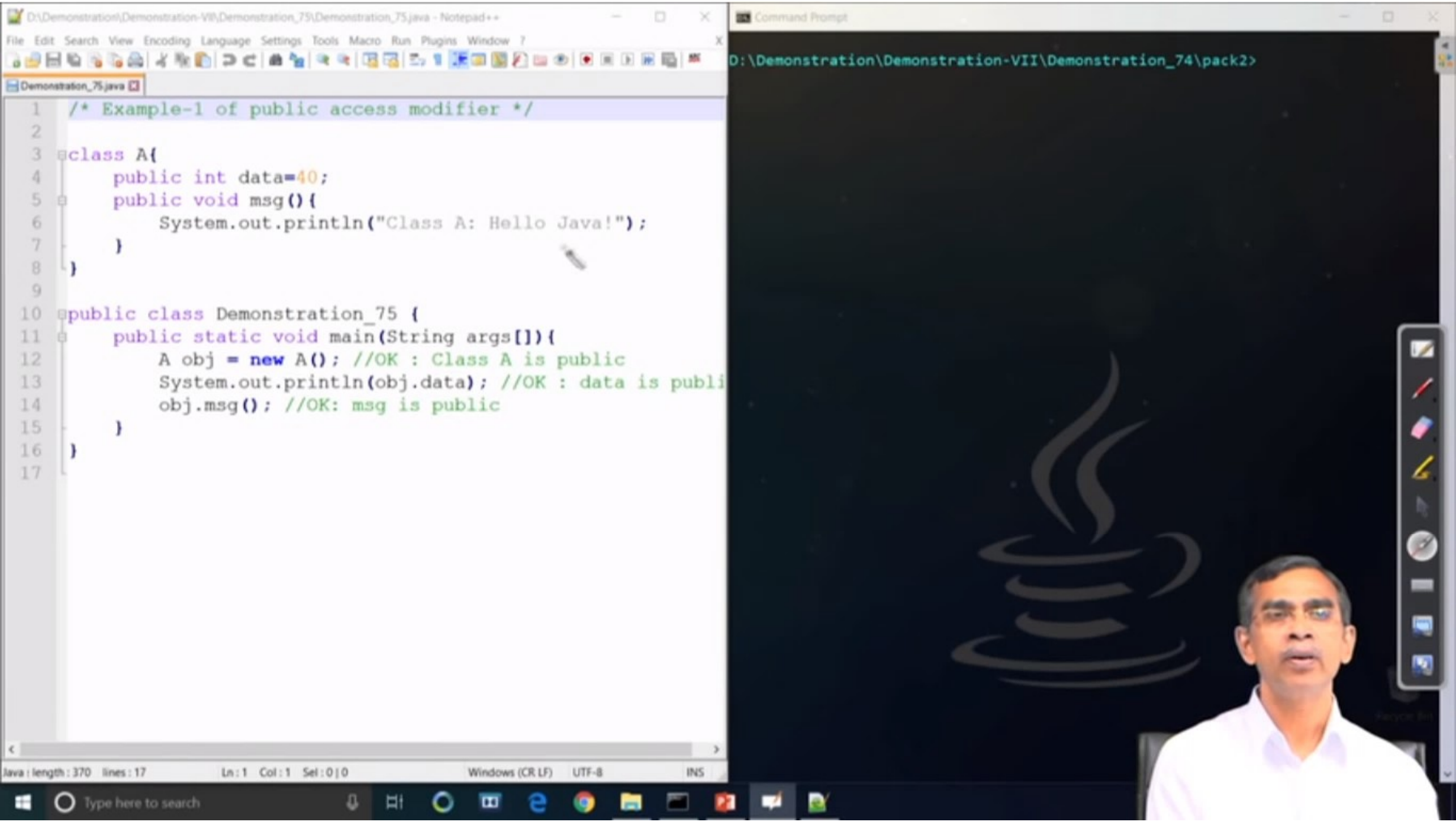
A.class 17-Nov-18 7:45 PM CLASS File 1 KB
A.java 17-Nov-18 7:45 PM JAVA File 1 KB
Demonstration_75.class 17-Nov-18 7:43 PM CLASS File 1 KB
Demonstration_75.java 17-Nov-18 7:44 PM JAVA File 1 KB
D:\Demonstration\Demonstration-VII\Demonstration_74\pack2\pack1>javac A.java
D:\Demonstration\Demonstration-VII\Demonstration_74\pack2\pack1>cd..
D:\Demonstration\Demonstration-VII\Demonstration_74\pack2>javac Demonstration_74.java
D:\Demonstration\Demonstration-VII\Demonstration_74\pack2>java Demonstration_74
Hi! I am in Class A
D:\Demonstration\Demonstration-VII\Demonstration_74\pack2>
10:26 / 37:17
YouTube


D:\Demonstration\Demonstration-VII\Demonstration_75\Demonstration_75.java - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
Demonstration_75.java
/* Example-1 of public access modifier */
class A{
public int data=40;
public void msg(){
System.out.println("Class A: Hello Java!");
}
}
public class Demonstration_75 {
public static void main(String args[]){
A obj = new A(); //OK : Class A is public
System.out.println(obj.data); //OK : data is publi
obj.msg(); //OK: msg is public
}
}
Java : length : 370 lines : 17 Ln : 1 Col : 1 Sel : 0 | 0 Windows (CR LF) UTF-8 INS
Command Prompt
D:\Demonstration\Demonstration-VII\Demonstration_74\pack2>
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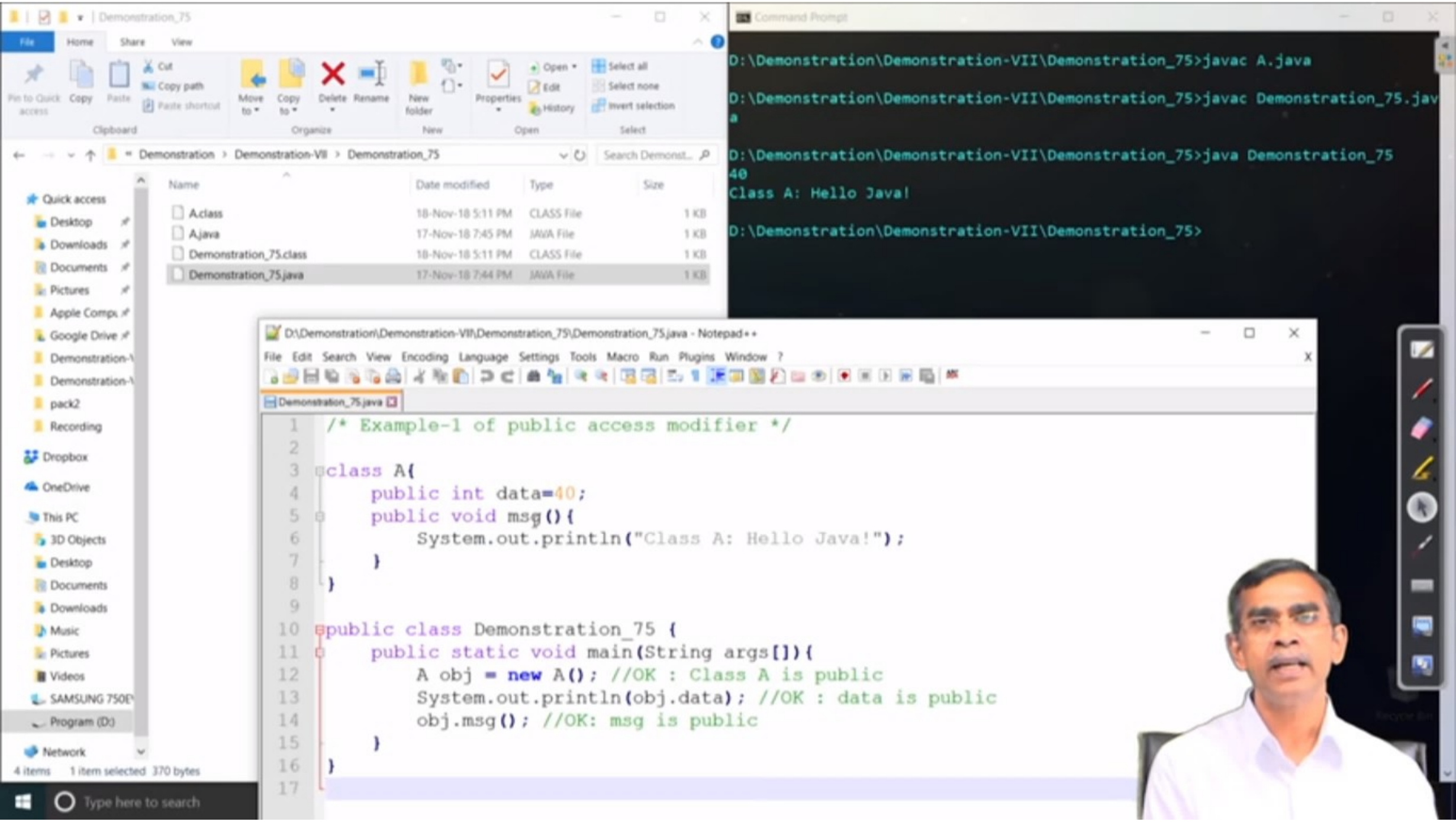
Demonstration_75
File Home Share View
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Demonstration › Demonstration-VII › Demonstration_75
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SAMSUNG 750E
Program (D:)
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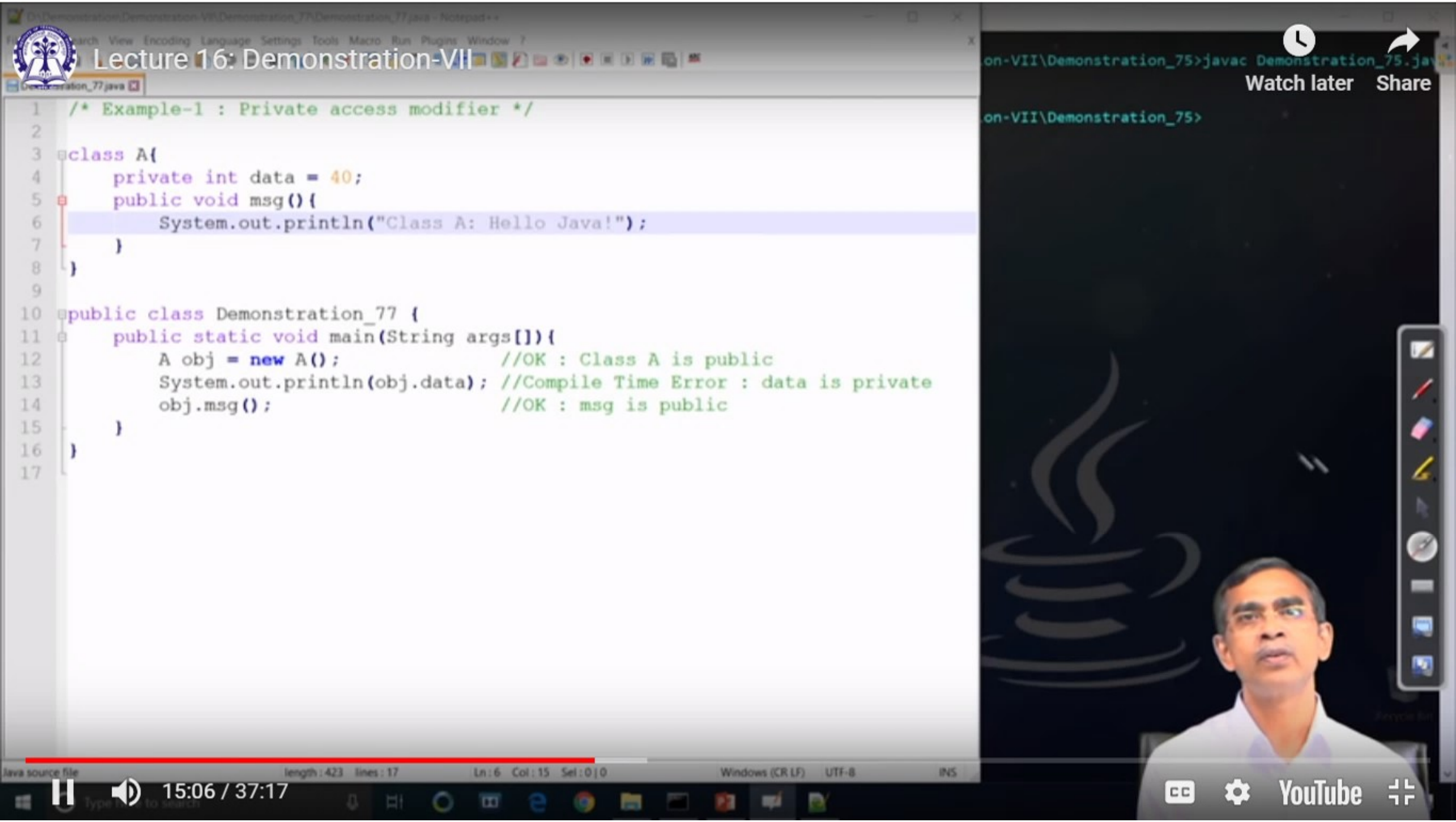
A.class 18-Nov-18 5:11 PM CLASS File 1 KB
A.java 17-Nov-18 7:45 PM JAVA File 1 KB
Demonstration_75.class 18-Nov-18 5:11 PM CLASS File 1 KB
Demonstration_75.java 17-Nov-18 7:44 PM JAVA File 1 KB
4 items 1 item selected 370 bytes
Type here to search
Command Prompt
D:\Demonstration\Demonstration-VII\Demonstration_75>javac A.java
D:\Demonstration\Demonstration-VII\Demonstration_75>javac Demonstration_75.java
D:\Demonstration\Demonstration-VII\Demonstration_75>java Demonstration_75
40
Class A: Hello Java!
D:\Demonstration\Demonstration-VII\Demonstration_75>
D:\Demonstration\Demonstration-VII\Demonstration_75\Demonstration_75.java - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
Demonstration_75.java
1 /* Example-1 of public access modifier */
2
3 class A{
4 public int data=40;
5 public void msg(){
6 System.out.println("Class A: Hello Java!");
7 }
8 }
9
10 public class Demonstration_75 {
11 public static void main(String args[]){
12 A obj = new A(); //OK : Class A is public
13 System.out.println(obj.data); //OK : data is public
14 obj.msg(); //OK: msg is public
15 }
16 }
17


Lecture 16: Demonstration-VII
Watch later
Share
/* Example-1 : Private access modifier */
class A{
private int data = 40;
public void msg(){
System.out.println("Class A: Hello Java!");
}
}
public class Demonstration_77 {
public static void main(String args[]){
A obj = new A(); //OK : Class A is public
System.out.println(obj.data); //Compile Time Error : data is private
obj.msg(); //OK : msg is public
}
}
15:06 / 37:17
YouTube

D:\Demonstration\Demonstration-VII\Demonstration_78\Demonstration_78.java - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

Demonstration_78.java

```
1  /* Example-2: Private access modifier */
2
3  class A{
4      private int data = 40;
5      public void msg(){
6          System.out.println("Class A: Hello Java!" + data);
7      }
8  }
9
10 public class Demonstration_78 {
11     public static void main(String args[]){
12         //private int data2 = 100;
13         //public int data2 = 100;
14         int data2 = 100;
15         A obj = new A(); //OK : Class A is public
16         System.out.println("Class B:"+ data2);  //OK: private data in the same class
17         obj.msg(); // Private data is accessable through public method
18     }
19 }
20
```

Java source file | length : 515 lines : 20 | Ln : 12 Col : 11 Sel : 0 | 0

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D:\Demonstration\Demonstration-VII\Demonstration_78\Demonstration_78.java - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

Demonstration_78.java

```java
/* Example-2: Private access modifier */

class A{
    private int data = 40;
    public void msg(){
        System.out.println("Class A: Hello Java!" + data);
    }
}

public class Demonstration_78 {
    public static void main(String args[]){
        //private int data2 = 100;
        //public int data2 = 100;
        int data2 = 100;
        A obj = new A(); //OK : Class A is public
        System.out.println("Class B:"+ data2);  //OK: private data in the same class
        obj.msg(); // Private data is accessable through public method
    }
}

```

Java source file length : 515 lines : 20 Ln : 12 Col : 11 Se : 810

Command Prompt

```
D:\Demonstration\Demonstration-VII\Demonstration_78>java Demonstration_78
Class B:100
Class A: Hello Java!40

D:\Demonstration\Demonstration-VII\Demonstration_78>
```

Type here to search

D:\Demonstration\Demonstration-VII\Demonstration_78\Demonstration_78.java - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

Demonstration_78.java

```java
/* Example-2: Private access modifier */

class A{
    private int data = 40;
    public void msg(){
        System.out.println("Class A: Hello Java!" + data);
    }
}

public class Demonstration_78 {
    public static void main(String args[]){
        //private int data2 = 100;
        public int data2 = 100;
        //int data2 = 100;
        A obj = new A(); //OK : Class A is public
        System.out.println("Class B:"+ data2);  //OK: private data in the same class
        obj.msg(); // Private data is accessable through public method
    }
}
```

Java source file length : 515 lines : 20 Ln : 13 Col : 9 Sel 0 | 0

Command Prompt

```
D:\Demonstration\Demonstration-VII\Demonst
ration_78>javac Demonstration_78.java
Demonstration_78.java:13: error: illegal s
tart of expression
                public int data2 = 100;
                ^
1 error

D:\Demonstration\Demonstration-VII\Demonst
ration_78>
```

Type here to search

D:\Demonstration\Demonstration-VII\Demonstration_78\Demonstration_78.java - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

Demonstration_78.java

```java
/* Example-2: Private access modifier */

class A{
    private int data = 40;
    public void msg(){
        System.out.println("Class A: Hello Java!" + data);
    }
}

public class Demonstration_78 {
    public static void main(String args[]){
        private int data2 = 100;
        //public int data2 = 100;
        //int data2 = 100;
        A obj = new A(); //OK : Class A is public
        System.out.println("Class B:"+ data2);  //OK: private data in the same class
        obj.msg(); // Private data is accessable through public method
    }
}

```

Java source file length : 515 lines : 20 Ln : 12 Col : 9 Sel

Command Prompt

```
D:\Demonstration\Demonstration-VII\Demonst
ration_78>javac Demonstration_78.java
Demonstration_78.java:12: error: illegal s
tart of expression
                private int data2 = 100;
                ^
1 error

D:\Demonstration\Demonstration-VII\Demonst
ration_78>
```

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D:\Demonstration\Demonstration-VII\Demonstration_79\Demonstration_79.java - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

Demonstration_79.java

```
1  class A{
2      private A(){
3      //private constructor
4      }
5
6      void msg(){
7          System.out.println("Class A: Hello Java!");
8      }
9  }
10
11 public class Demonstration_79 {
12     public static void main(String args[]){
13         A obj = new A(); //Compile Time Error
14     }
15 }
16
```

Java source file length : 248 lines : 16 Ln : 1 Col : 1 Sel : 0 | 0 Windows (CR LF) UTF-8 INS

Command Prompt

```
D:\Demonstration\Demonstration-VII\Demonstration_79>javac Demonstration_79.java
Demonstration_79.java:13: error: A() has private access in A
                A obj = new A(); //Compile Time Error
                        ^
1 error

D:\Demonstration\Demonstration-VII\Demonstration_79>
```

Type here to search

D:\Demonstration\Demonstration-VII\Demonstration_79\Demonstration_79.java - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

Demonstration_79.java

```
1  class A{
2      public A(){
3      //private constructor
4      }
5
6      void msg(){
7          System.out.println("Class A: Hello Java!");
8      }
9  }
10
11 public class Demonstration_79 {
12     public static void main(String args[]){
13         A obj = new A(); //Compile Time Error
14     }
15 }
16
```

Java source file | length : 247 | lines : 16 | Ln : 2 | Col : 11 | Sel : 0 | 0 | Windows (CR LF) | UTF-8 | INS

Command Prompt

```
D:\Demonstration\Demonstration-VII\Demonstration_79>javac Demonstration_79.java

D:\Demonstration\Demonstration-VII\Demonstration_79>java Demonstration_79

D:\Demonstration\Demonstration-VII\Demonstration_79>
```

Type here to search

D:\Demonstration\Demonstration-VII\Demonstration_710\Demonstration_710.java - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

Demonstration_710.java

```
1  /* Example 1: protected modifier  */
2
3  class A {
4      protected int rollNo = 555;
5      protected void msg(){
6          System.out.println("Class A: Hello Java!" + rollNo);
7      }
8  }
9
10 class Demonstration_710  {
11     public static void main(String args[]){
12         A obj = new A();
13         obj.msg();
14         obj.rollNo();
15     }
16 }
17
```

Java source file | length : 301 | lines : 17 | Ln : 13 | Col : 19 | Sel : 0 | 0 | Windows (CR LF) | UTF-8 | INS

Command Prompt

```
D:\Demonstration\Demonstration-VII\Demonstration_710>javac Demo
nstration_710.java
Demonstration_710.java:14: error: cannot find symbol
                obj.rollNo();
                    ^
  symbol:   method rollNo()
  location: variable obj of type A
1 error

D:\Demonstration\Demonstration-VII\Demonstration_710>
```

Type here to search

D:\Demonstration\Demonstration-VII\Demonstration_710\Demonstration_710.java - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

Demonstration_710.java

```java
/* Example 1: protected modifier  */

class A {
    protected int rollNo = 555;
    protected void msg(){
        System.out.println("Class A: Hello Java!" + rollNo);
    }
}

class Demonstration_710  {
    public static void main(String args[]){
        A obj = new A();
        obj.msg();
        //obj.rollNo();
        System.out.println("Class A: Hello Java!" + obj.rollNo);
    }
}
```

Java source file | length : 363 | lines : 18 | Ln : 15 | Col : 57 | Sel : 0 | 0 | Windows (CR LF) | UTF-8 | INS

Command Prompt

```
D:\Demonstration\Demonstration-VII\Demonstration_710>javac Demo
nstration_710.java

D:\Demonstration\Demonstration-VII\Demonstration_710>java Demon
stration_710
Class A: Hello Java!555
Class A: Hello Java!555

D:\Demonstration\Demonstration-VII\Demonstration_710>
```

Type here to search

Lecture 16: Demonstration-VII

```java
/* Example 1: protected modifier  */

class A {
    protected int rollNo = 555;
    protected void msg(){
        System.out.println("Class A: Hello Java!" + rollNo);
    }
}

class Demonstration_710  {
    public static void main(String args[]){
        A obj = new A();
        obj.msg();
        //obj.rollNo();
        System.out.println("Class A: Hello Java!" + obj.rollNo);
    }
}
```

```
D:\Demonstration\Demonstration-VII\Demonstration_710>javac Demo
nstration_710.java

D:\Demonstration\Demonstration-VII\Demonstration_710>java Demon
stration_710
Class A: Hello Java!555
Class A: Hello Java!555

D:\Demonstration\Demonstration-VII\Demonstration_710>
```

Watch later Share

25:55 / 37:17

D:\Demonstration\Demonstration-VII\Demonstration_714\Demonstration_714.java - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

Demonstration_714.java

```
/* Simple example of access modifier. In a class hierarchy, private members remain private to their class. This program

// Create a superclass.
class A {
    int i; // public by default
    private int j; // private to A

    void setij(int x, int y) {
        i = x;
        j = y;
    }
}

// A's j is not accessible here.
class B extends A {
    int total;

    void sum() {
        total = i + j; // ERROR, j is not accessible here
    }
}


class Demonstration_714{
    public static void main(String args[]) {
        B subOb = new B();
        subOb.setij(10, 12);
        subOb.sum();
```

Java source file length : 664 lines : 33 Ln : 1 Col : 108 Sel : 0 | 0

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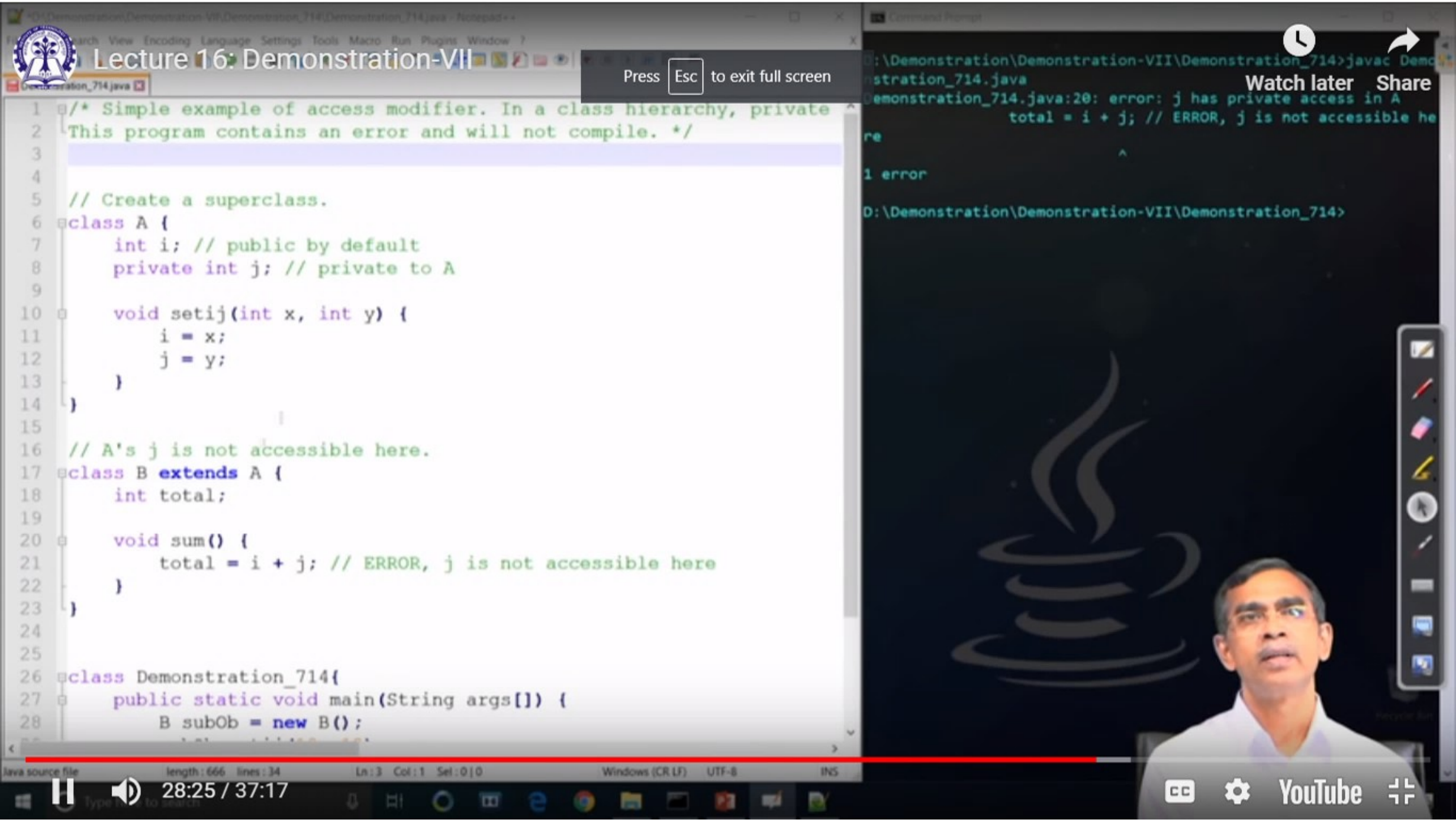
Lecture 16: Demonstration-VII
Press Esc to exit full screen
Watch later
Share
/* Simple example of access modifier. In a class hierarchy, private
This program contains an error and will not compile. */
// Create a superclass.
class A {
int i; // public by default
private int j; // private to A
void setij(int x, int y) {
i = x;
j = y;
}
}
// A's j is not accessible here.
class B extends A {
int total;
void sum() {
total = i + j; // ERROR, j is not accessible here
}
}
class Demonstration_714{
public static void main(String args[]) {
B subOb = new B();
:\Demonstration\Demonstration-VII\Demonstration_714>javac Demo
stration_714.java
emonstration_714.java:20: error: j has private access in A
total = i + j; // ERROR, j is not accessible he
re
^
1 error
D:\Demonstration\Demonstration-VII\Demonstration_714>
28:25 / 37:17
YouTube

*D:\Demonstration\Demonstration-VII\Demonstration_714\Demonstration_714.java - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

Demonstration_714.java

```
/* Simple example of access modifier. In a class hierarchy, private
This program contains an error and will not compile. */


// Create a superclass.
class A {
    int i; // public by default
    private int j; // private to A

    void setij(int x, int y) {
        i = x;
        j = y;
    }
}

// A's j is not accessible here.
class B extends A {
    int total;

    void sum() {
        total = i + j; // ERROR, j is not accessible here
    }
}


class Demonstration_714{
    public static void main(String args[]) {
        B subOb = new B();
```

Java source file length : 666 lines : 34 Ln : 3 Col : 1 Sel : 0 | 0 Windows (CR LF) UTF-8 INS

Command Prompt

```
D:\Demonstration\Demonstration-VII\Demonstration_714>javac Demo
nstration_714.java
Demonstration_714.java:20: error: j has private access in A
                total = i + j; // ERROR, j is not accessible he
re
                            ^
1 error

D:\Demonstration\Demonstration-VII\Demonstration_714>
```

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D:\Demonstration\Demonstration-VII\Demonstration_714\Demonstration_714.java - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

Demonstration_714.java

```
/* Simple example of access modifier. In a class hierarchy, private
This program contains an error and will not compile. */


// Create a superclass.
class A {
    int i; // public by default
    protected int j; // private to A

    void setij(int x, int y) {
        i = x;
        j = y;
    }
}

// A's j is not accessible here.
class B extends A {
    int total;

    void sum() {
        total = i + j; // ERROR, j is not accessible here
    }
}


class Demonstration_714{
    public static void main(String args[]) {
        B subOb = new B();
```

Java source file length : 668 lines : 34 Ln : 8 Col : 14 Sel : 0 | 0 Windows (CR LF) UTF-8 INS

Command Prompt

```
D:\Demonstration\Demonstration-VII\Demonstration_714>java Demonstration_714
Total is 22

D:\Demonstration\Demonstration-VII\Demonstration_714>
```

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D:\Demonstration\Demonstration-VII\Demonstration_715\Demonstration_715.java - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

Demonstration_715.java

```
1  /* Another example of access modifier with public, private and prote
2
3  class BaseClass {
4  public int x = 10;
5  private int y = 10;
6  protected int z = 10;
7  int a = 10; //Implicit Default Access Modifier
8
9  public int getX() {
10 return x;
11 }
12
13 public void setX(int x) {
14 this.x = x;
15 }
16
17 private int getY() {
18 return y;
19 }
20
21 private void setY(int y) {
22 this.y = y;
23 }
24
25 protected int getZ() {
26 return z;
27 }
28
```

Java source file | length : 1,590 | lines : 70 | Ln : 1 | Col : 1 | Sel : 0 | 0 | Windows (CR LF) | UTF-8 | INS

Command Prompt

D:\Demonstration\Demonstration-VII\Demonstration_715>

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D:\Demonstration\Demonstration-VII\Demonstration_715\Demonstration_715.java - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

Demonstration_715.java

```
protected void setZ(int z) {
this.z = z;
}

int getA() {
return a;
}

void setA(int a) {
this.a = a;
}
}


public class Demonstration_715 extends BaseClass {
    public static void main(String args[]) {
        BaseClass rr = new BaseClass();
        rr.z = 0;
        Demonstration_715 subClassObj = new Demonstration_715();
        //Access Modifiers - Public
        System.out.println("Value of x is : " + subClassObj.x);
        subClassObj.setX(20);
        System.out.println("Value of x is : " + subClassObj.x);
        //Access Modifiers - Public
        // If we remove the comments it would result in a compilaton
        //      error as the fields and methods being accessed are p
```

Java source file length : 1,590 lines : 70 Ln : 1 Col : 1 Sel : 0 | 0 Windows (CR LF) UTF-8 INS

Command Prompt

D:\Demonstration\Demonstration-VII\Demonstration_715>

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D:\Demonstration\Demonstration-VII\Demonstration_715\Demonstration_715.java - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

Demonstration_715.java

```
42
43  public class Demonstration_715 extends BaseClass {
44      public static void main(String args[]) {
45          BaseClass rr = new BaseClass();
46          rr.z = 0;
47          Demonstration_715 subClassObj = new Demonstration_715();
48          //Access Modifiers - Public
49          System.out.println("Value of x is : " + subClassObj.x);
50          subClassObj.setX(20);
51          System.out.println("Value of x is : " + subClassObj.x);
52          //Access Modifiers - Public
53          // If we remove the comments it would result in a compilaton
54          //      error as the fields and methods being accessed are private
55
56          /* System.out.println("Value of y is : "+subClassObj.y);
57          subClassObj.setY(20);
58          System.out.println("Value of y is : "+subClassObj.y);*/
59
60          //Access Modifiers - Protected
61          System.out.println("Value of z is : " + subClassObj.z);
62          subClassObj.setZ(30);
63          System.out.println("Value of z is : " + subClassObj.z);
64          //Access Modifiers - Default
65          System.out.println("Value of x is : " + subClassObj.a);
66          subClassObj.setA(20);
67          System.out.println("Value of x is : " + subClassObj.a);
68      }
69  }
70
```

Java source file length : 1,590 lines : 70 Ln : 1 Col : 1 Sel : 0 | 0

Type here to search

D:\Demonstration\Demonstration-VIII\Demonstration_716\Demonstration_716.java - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

Demonstration_716.java

```java
/* Example of method-overiding */


class A{
       public void msg1() {
           System.out.println("Class A: Public!");
       }

       private void msg2() {
           System.out.println("Class A: Private!");
       }
       protected void msg3(){
          System.out.println("Class A: Protected!");
       }
    }

    public class Demonstration_716 extends A{
       void msg(){
           System.out.println("Class Main: Welcome!");
       }
       public void msg1() { // If modifire is set to default it cannot overide.
           System.out.println("Overriding public method!");

       }

       void msg2() {
           System.out.println("Overriding private method!");
       }
       // If modifire is set to private it can be overidden.
```

Java source file length : 1,139 lines : 45 Ln : 1 Col : 1 Sel : 0 | 0

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D:\Demonstration\Demonstration-VII\Demonstration_716\Demonstration_716.java - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

Demonstration_716.java

```
17  public class Demonstration_716 extends A{
18      void msg(){
19          System.out.println("Class Main: Welcome!");
20      }
21      public void msg1() { // If modifire is set to default it cannot overide.
22          System.out.println("Overriding public method!");
23
24      }
25
26      void msg2() {
27          System.out.println("Overriding private method!");
28      }
29      // If modifire is set to private it can be overidden.
30      public void msg3(){
31         System.out.println("Overriding protected method!");
32      }
33
34      public static void main(String args[]){
35          Demonstration_716 obj = new Demonstration_716();
36          obj.msg();
37          //obj.msg1();
38          //obj.msg2();
39          //obj.msg3();
40      }
41  }
42
43
44
45
```

Java source file length : 1,139 lines : 45 Ln : 1 Col : 1 Sel : 0 | 0

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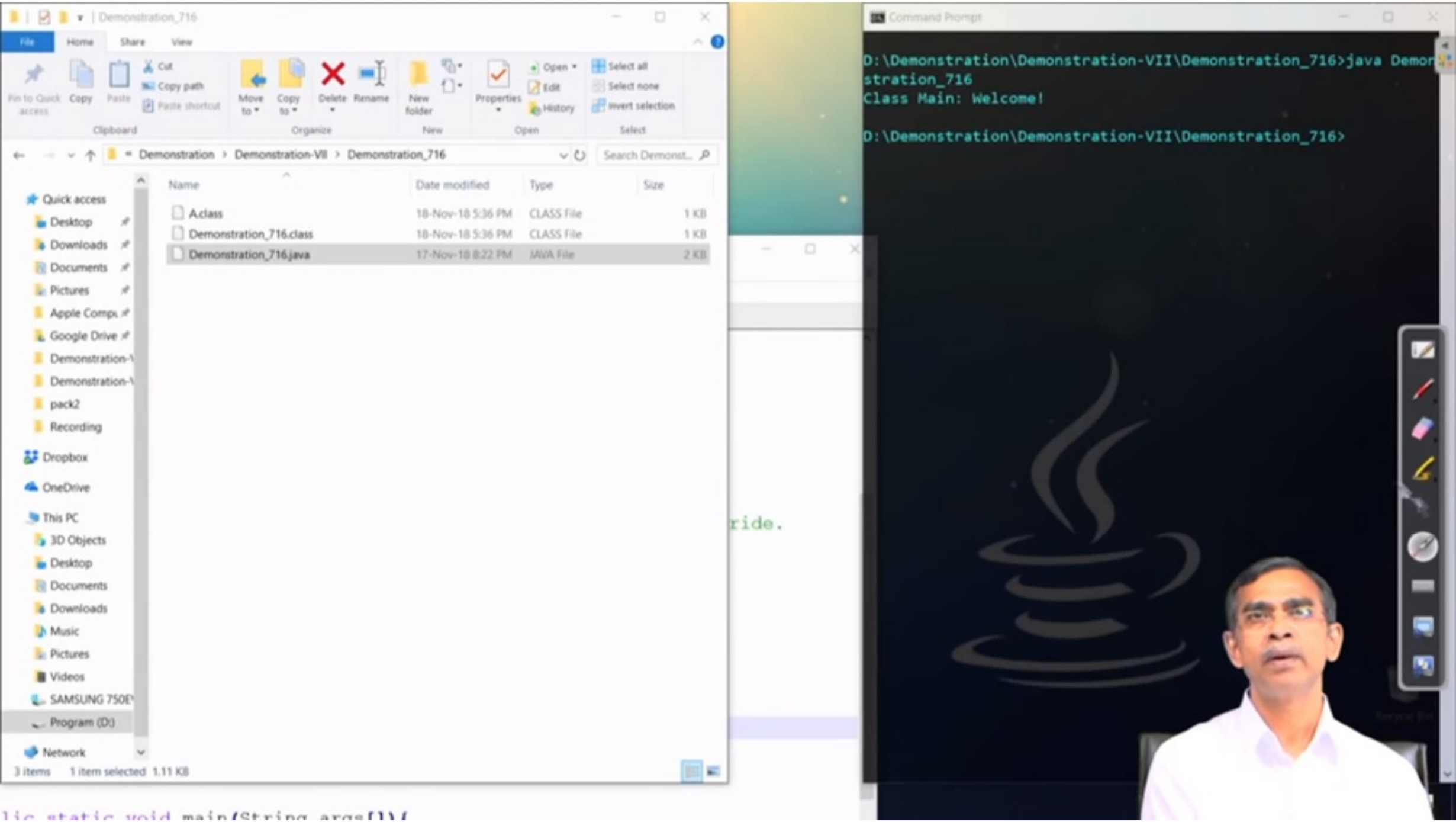
Demonstration_716
File
Home
Share
View
Cut
Copy path
Paste shortcut
Pin to Quick access
Copy
Paste
Move to
Copy to
Delete
Rename
New folder
Properties
Open
Edit
History
Select all
Select none
Invert selection
Clipboard
Organize
New
Open
Select
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Pictures
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Demonstration-V
pack2
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OneDrive
This PC
3D Objects
Desktop
Documents
Downloads
Music
Pictures
Videos
SAMSUNG 750E
Program (D:)
Network
Name
Date modified
Type
Size
A.class
18-Nov-18 5:36 PM
CLASS File
1 KB
Demonstration_716.class
18-Nov-18 5:36 PM
CLASS File
1 KB
Demonstration_716.java
17-Nov-18 8:22 PM
JAVA File
2 KB
3 items
1 item selected 1.11 KB
Command Prompt
D:\Demonstration\Demonstration-VII\Demonstration_716>java Demonstration_716
Class Main: Welcome!
D:\Demonstration\Demonstration-VII\Demonstration_716>