

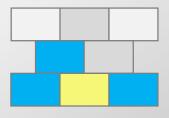


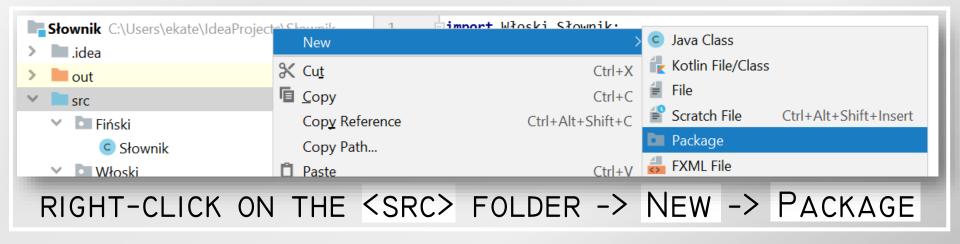
HOW TO CREATE A PACKAGE?

HOW TO USE CLASSES FROM A PACKAGE?

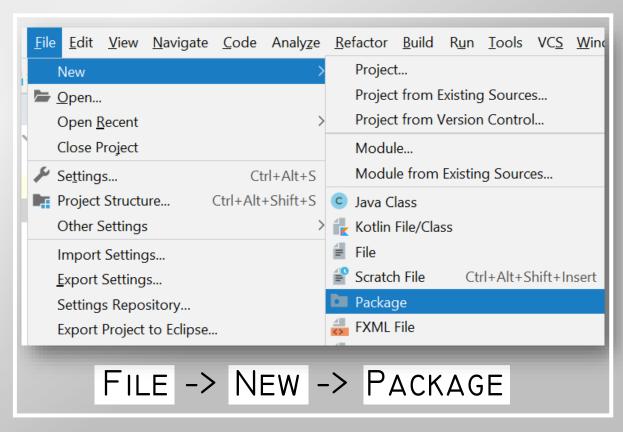
CLASSES WITH THE SAME NAME, BUT FROM DIFFERENT PACKAGES

ACCESS SPECIFIERS





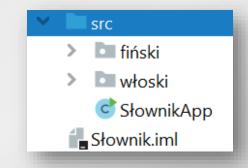
OR



- ☐ IN THE <src> FOLDER CREATE A PACKAGE CALLED <włoski>.
- ☐ IN THIS PACKAGE CREATE A CLASS CALLED <Słownik>
 THAT HAS TWO FIELDS OF THE <String[]> CLASS
 <słowaWł> AND <słowaPl>. THE FIRST ARRAY CONTAINS
 {"uno", "due", "tre"}, THE SECOND {"jeden", "dwa", "trzy"}.
- ☐ ADD TWO METHODS sprawdźWł() AND sprawdźPl():
 - sprawdźWł() CHECKS IF A USER CORRECTLY
 TRANSLATED A WORD FROM <słowaPl> TO ITALIAN.
 - sprawdźPl() CHECKS IF A USER CORRECTLY
 TRANSLATED A WORD FROM <słowaWł> TO POLISH.

☐ IN THE <src> FOLDER (NOT IN THE <włoski>

PACKAGE) CREATE A CLASS CALLED <SłownikApp> THAT CONTAINS THE main() METHOD.





☐ IMPORT PACKAGE <włoski> TO <SłownikApp>.

import włoski.Słownik;

- ☐ IN THE MAIN PROGRAM AKS A USER TO TRANSLATE FROM POLISH TO ITALIAN WORDS "jeden", "dwa" I "trzy" ONE BY ONE. CHECK IF THE TRANSLATION IS CORRECT USING THE sprawdźWł() METHOD.
- ☐ THEN, ASK A USER TO TRANSLATE FROM ITALIAN TO POLISH WORDS "uno", "due" | "tre". CHECK IF THE TRANSLATION IS CORRECT USING sprawdźPl().

- ☐ CREATE A PACKAGE <fiński> IN THE <scr> FOLDER
- ☐ IN THIS PACKAGE CREATE A CLASS <Słownik> THAT HAS TWO STRING ARRAYS <słowaFi> AND <słowaPl>. THE FIRST ONE CONTAINS {"yksi", "kaksi", "kolme"}, THE SECOND {"jeden", "dwa", "trzy"}.
- ☐ ADD TWO METHODS sprawdźFi() AND sprawdźPl() :
 - sprawdźfi() CHECKS IF A USER CORRECTLY
 TRANSLATED A WORD FROM <słowaPl> TO FINNISH.
 - sprawdźPl() CHECKS IF A USER CORRECTLY
 TRANSLATED A WORD FROM <słowaFi> TO POLISH.

- ☐ IMPORT PACKAGE <fiński> TO <SłownikApp>.
- ☐ IN THE MAIN PROGRAM AKS A USER TO CHOOSE ITALIAN OR FINNISH. THEN, ASK THE USER TO TRANSLATE WORDS "jeden", "dwa" | "trzy" TO ITALIAN / FINNISH. CHECK IF THE TRANSLATION IS CORRECT USING THE sprawdźWł() / sprawdźFi() METHOD.

What is wrong?

```
import Włoski.Słownik;
import Fiński.Słownik;
import java.util.Scanner;
```

'Włoski.Słownik' is already defined in a single-type import

What is wrong?

```
import Włoski.Słownik;
import Fiński.Słownik;
import java.util.Scanner;
```

'Włoski.Słownik' is already defined in a single-type import

In the main program we created an object of class **<Słownik>** from the **<włoski>** package. Now, we try to create an object of class **<Słownik>** from the **<fiński>** package.

The compiler complains because it is confused. The compiler does not know whether we want to create an object of the **<Słownik>** class from the **<Włoski>** package OR an object of the **<Słownik>** class from the **<fiński>** package. Who wouldn't complain in such situation ©

```
import Włoski.Słownik;
//import Fiński.Słownik;
import java.util.Scanner;
public class SłownikApp {
   public static void main(String[] args) {
       Słownik <mark>słownikWł = new</mark> Słownik();
       Fiński.Słownik słownikFi = new Fiński.Słownik();
   an object of class <Slownik> from
<włoski> package
   an object of class <Słownik> from
<fiński> package.
```

class/constructor/variable/method is accessible ...

private

... within the class

default

... within the class

... within the package

package fiński; class Słownik {

protected

... within the class

... within the package

... within the package & outside through outside through its child class its child class

public

... within the class

... within the package

... within the package &



... within & outside the class, within & outside the package

☐ CHANGE THE ACCE	SS MODIFIER OF THE	<słownik></słownik>
CLASS (IN THE <fins< td=""><td>ski>/<włoski> PAC</włoski></td><td>(AGE) FROM</td></fins<>	ski>/ <włoski> PAC</włoski>	(AGE) FROM
PUBLIC TO DEFAULT.	<pre>package fiński;</pre>	package fiński;
	public class Słownik {	class Słownik {
☐ WHAT ERROR DID \ YOUR ANSWER: _		
☐ HOW TO ACCESS PROUTSIDE OF THIS OF YOUR ANSWER: _	CLASS?	OF A PUBLIC CLASS
_		

