

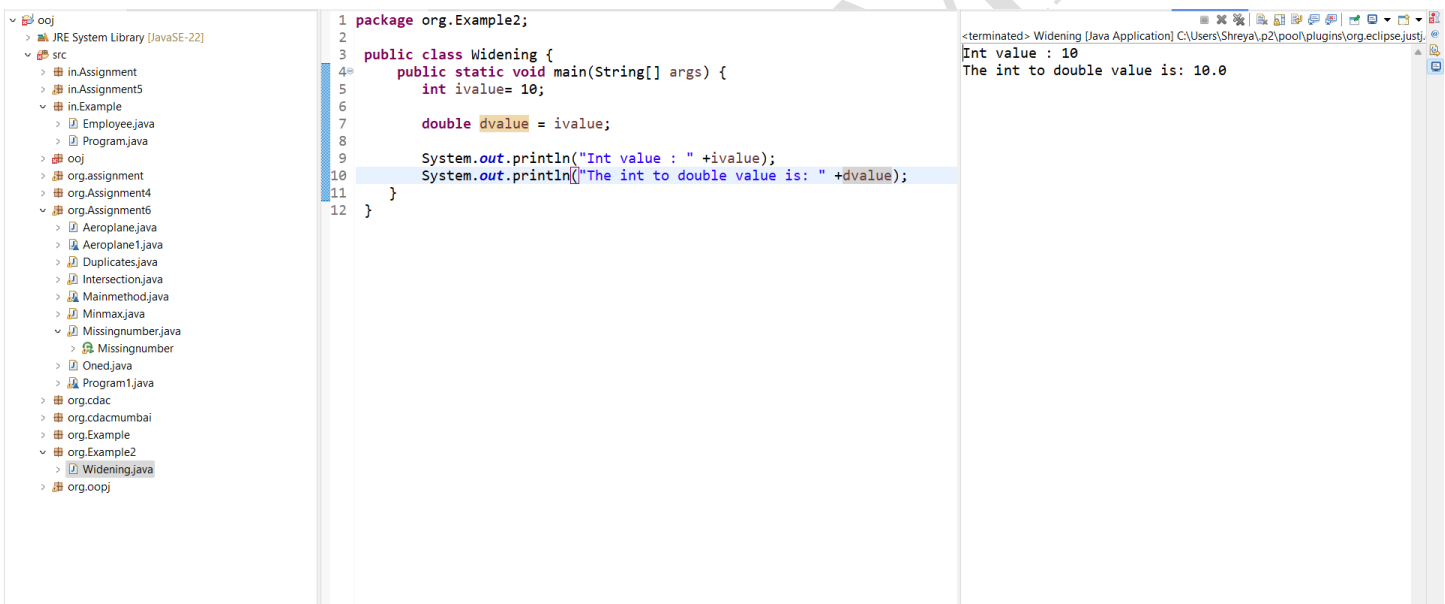
CDAC Mumbai PG-DAC August 24

Assignment No- 4

1) Write a program that demonstrates widening conversion from int to double and prints the result.

package org.Example2;

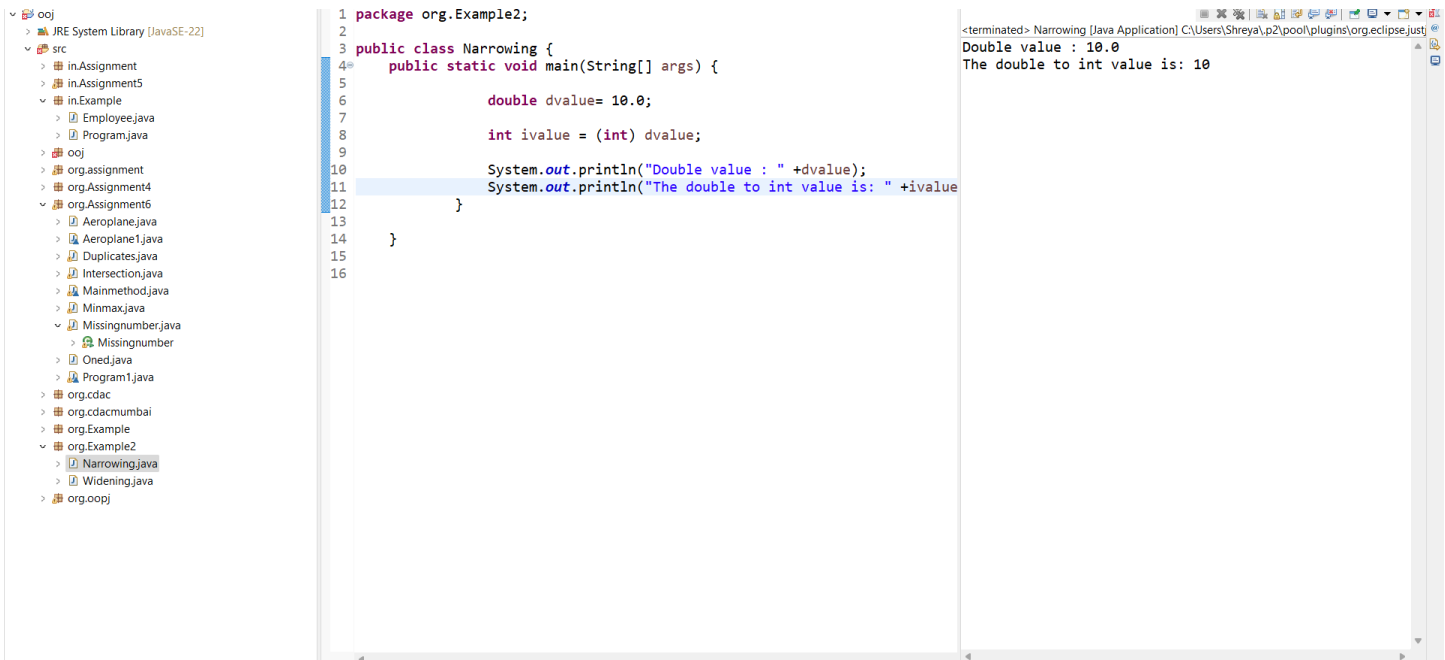
```
public class Widening {  
    public static void main(String[] args) {  
        int ivalue= 10;  
  
        double dvalue = ivalue;  
  
        System.out.println("Int value : " +ivalue);  
        System.out.println("The int to double value is: " +dvalue);  
    }  
}
```



2) Create a program that demonstrates narrowing conversion from double to int and prints the result.

package org.Example2;

```
public class Narrowing {  
    public static void main(String[] args) {  
        double dvalue= 10.0;  
        int ivalue = (int) dvalue;  
        System.out.println("Double value : " +dvalue);  
        System.out.println("The double to int value is: " +ivalue);  
    }  
}
```



3) Write a program that performs arithmetic operations involving different data types (int, double, float) and observes how Java handles widening conversions automatically.

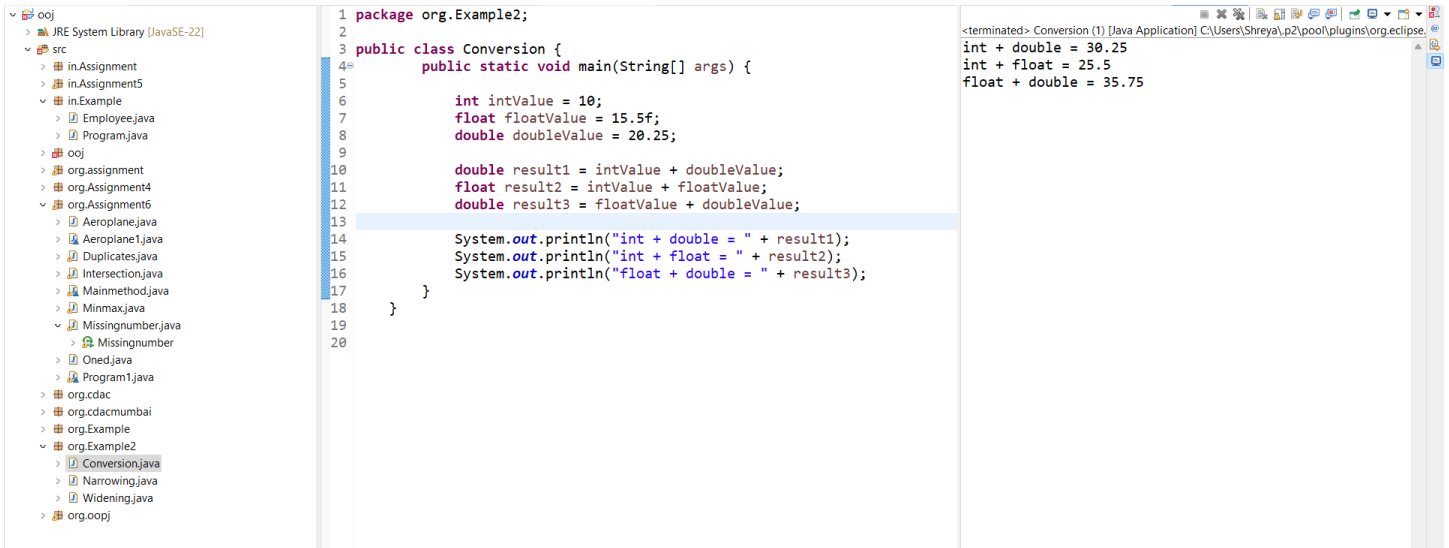
```
package org.Example2;
```

```
public class Conversion {
    public static void main(String[] args) {

        int intValue = 10;
        float floatValue = 15.5f;
        double doubleValue = 20.25;

        double result1 = intValue + doubleValue;
        float result2 = intValue + floatValue;
        double result3 = floatValue + doubleValue;

        System.out.println("int + double = " + result1);
        System.out.println("int + float = " + result2);
        System.out.println("float + double = " + result3);
    }
}
```



4) Write a Program that demonstrates widening conversion from int to (double,float, boolean, string) and prints the result.

```

package org.Example2;

public class Conversion2 {

    public static void main(String[] args) {
        int intValue = 42;

        double doubleValue = intValue;
        System.out.println("Widening int to double: " + doubleValue);

        float floatValue = intValue;
        System.out.println("Widening int to float: " + floatValue);

        boolean isPositive = intValue > 0;
        System.out.println("int to boolean (is positive): " + isPositive);

        String stringValue = Integer.toString(intValue);
        System.out.println("Converting int to String: " + stringValue);
    }
}

```

