

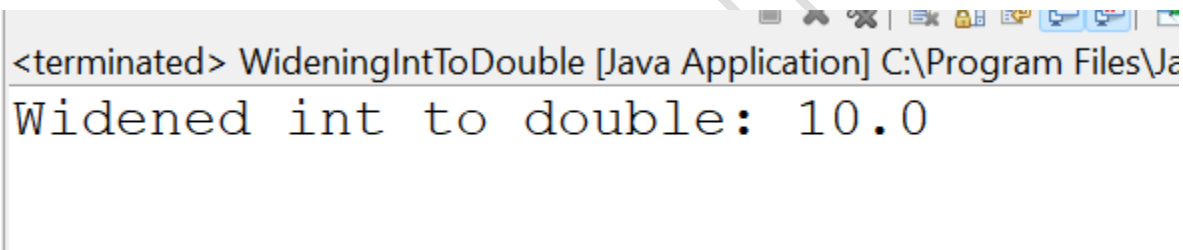
# CDAC Mumbai PG-DAC August 24

## Assignment No- 4

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

```
package in.Cdac.Assignment_4;

public class WideningIntToDouble {
    public static void main(String[] args) {
        int num = 10;
        double widenedNum = num;
        System.out.println("Widened int to double: " + widenedNum);
    }
}
```



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

```
package in.Cdac.Assignment_4;

public class NarrowingDoubleToInt {
    public static void main(String[] args) {
        double num = 10.99;
        int narrowedNum = (int) num;
        System.out.println("Narrowed double to int: " + narrowedNum);
    }
}
```

```
<terminated> NarrowingDoubleToInt [Java Application] C:\P  
Narrowed double to int: 10
```

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

```
package in.Cdac.Assignment_4;  
  
public class ArithmeticWidening {  
    public static void main(String[] args) {  
        int num1 = 5;  
        double num2 = 6.5;  
        float num3 = 3.2f;  
  
        double result1 = num1 + num2;  
        float result2 = num1 + num3;  
  
        System.out.println("Result of int + double: " + result1);  
        System.out.println("Result of int + float: " + result2);  
    }  
}
```

```
<terminated> ArithmeticWidening [Java Application] C:\Program File  
Result of int + double: 11.5  
Result of int + float: 8.2
```

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

```
package in.Cdac.Assignment_4;

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

        int num = 25;
        double toDouble = num;
        float toFloat = num;
        String toString = Integer.toString(num);

        boolean toBoolean = (num != 0);

        System.out.println("int to double: " + toDouble);
        System.out.println("int to float: " + toFloat);
        System.out.println("int to string: " + toString);
        System.out.println("int to boolean: " + toBoolean);
    }
}
```

<terminated> WideningConversions [Java Application] C:\Pro

```
int to double: 25.0
int to float: 25.0
int to string: 25
int to boolean: true
```

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