1]
```
public class Practise {
    public static void main(String[] args) {
        int intValue = 5;
        double doubleValue = intValue;

        System.out.println("Integer value: " + intValue);
        System.out.println("After widening: " + doubleValue);
    }
}
```

output: Integer value: 5
        After widening: 5.0

2]
```
public class Practise {
    public static void main(String[] args) {

        double doubleValue = 50.123;
        int intValue = (int) doubleValue;

        System.out.println("Double value: " + doubleValue);
        System.out.println("After narrowing: " + intValue);
    }
}
```

Output:Double value: 50.123
       After narrowing: 50

3]
```
public class Practise {
    public static void main(String[] args) {
        int intValue = 20;
        double doubleValue = 20.5;
        float floatValue = 15.3f;

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

        // Subtraction
        double result4 = doubleValue - intValue;
        float result5 = floatValue - intValue;
        double result6 = doubleValue - floatValue;

        // Multiplication
        double result7 = intValue * doubleValue;
        float result8 = intValue * floatValue;
        double result9 = doubleValue * floatValue;

        // Division
        double result10 = doubleValue / intValue;
        float result11 = floatValue / intValue;
```

```
        double result12 = doubleValue / floatValue;
        // Print results
        System.out.println("Addition:");
        System.out.println("Result 1: " + result1);
        System.out.println("Result 2: " + result2);
        System.out.println("Result 3: " + result3);

        System.out.println("\nSubtraction:");
        System.out.println("Result 4: " + result4);
        System.out.println("Result 5: " + result5);
        System.out.println("Result 6: " + result6);

        System.out.println("\nMultiplication:");
        System.out.println("Result 7: " + result7);
        System.out.println("Result 8: " + result8);
        System.out.println("Result 9: " + result9);

        System.out.println("\nDivision:");
        System.out.println("Result 10: " + result10);
        System.out.println("Result 11: " + result11);
        System.out.println("Result 12: " + result12);
    }
}
```

Output: Addition:
Result 1: 40.5
Result 2: 35.3
Result 3: 35.80000019073486

Subtraction:
Result 4: 0.5
Result 5: -4.7
Result 6: 5.199999809265137

Multiplication:
Result 7: 410.0
Result 8: 306.0
Result 9: 313.6500039100647

Division:
Result 10: 1.025
Result 11: 0.765
Result 12: 1.3398692643424979

5]
```
public class Practise {
    public static void main(String[] args) {
        int intValue = 10;

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

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

```
        // Widening conversion to boolean (with condition)
        boolean booleanValue = intValue != 0; // Convert to boolean based on condition
        System.out.println("Widening conversion to boolean: " + booleanValue);

        // Widening conversion to String
        String stringValue = String.valueOf(intValue);
        System.out.println("Widening conversion to String: " + stringValue);
    }
}
```

Output: Widening conversion to double: 10.0
Widening conversion to float: 10.0
Widening conversion to boolean: true
Widening conversion to String: 10