ASSIGNMENT NO. 4

Kunal More

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

```
public class p1 {

4  public static void main(String[] args) {

5  int num = 42;

6  double result = num;

7  System.out.println("Widening conversion from int to double: " + result);

8  }

9 }

10

**Console × **Problems **Debug Shell**

**Lerminated> p1 (8) [Java Application] C\Users\ACER\p2\poo\poo\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_22.0.2v20240802-1626\jre\bin\javaw.exe (17 Sept.)

Widening conversion from int to double: 42.0
```

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

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

```
package mam.Assignment_4;

public class p3 {
    public static void main(String[] args) {
        int intValue = 10;
}
```

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```
double doubleValue = 15.5;
    float floatValue = 20.2f;

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

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

```
apublic class p3 {

4  public static void main(String[] args) {

5  int intValue = 10;

6  double doubleValue = 15.5;

7  float floatValue = 20.2f;

8  double result1 = intValue + doubleValue;

10  float result2 = floatValue + intValue;

11  double result3 = floatValue + doubleValue;

12  13  System.out.println("Result of int + double: " + result1);

14  System.out.println("Result of float + int: " + result2);

15  System.out.println("Result of float + double: " + result3);

■ Console × ♀ Problems ■ Debug Shell

*terminated> p3 (5) [Java Application] CAUSers\ACER\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32x86_64_22.02v20240802-1626\jre\bin\jre.full.win32x86_float_22.02v20240802-1626\jre\bin\jre.full.win32x86_float_22.02v20240802-1626\jre\bin\jre.full.win32x86_float_22.02v20240802-1626\jre\bin\jre.full.win32x86_float_22.02v20240802-1626\jre\bin\jre.full.win32x86_float_22.02v20240802-1626\jre\bin\jre.full.win32x86_float_22.02v20240802-1626\jre\bin\jre.full.win32x86_float_22.02v20240802-1626\jre\bin\jre.full.win32x86_float_22.02v20240802-1626\jre.full.win32x86_float_22.02v20240802-1626\jre.full.win32x86_float_22.02v20240802-1626\jre.full.win32x86_float_22.02v20240802-1626\jre.full.win32x86_float_22.02v20240802-1626\jre.full.win32x86_float_22.02v20240802-1626\jre.full.win32x86_float_22.02v20240802-1626\jre.full.win32x86_float_22.02v20240802-1626\jre.full.win32x86_float_22.02v20240802-1626\jre.full.win32x86_float_22.02v20240802-1626\jre.full.win32x86_float_22.02v20240802-1626\jre.full.win32x86_float_22.02v20240802-1626\jre.full.win32x86_float_22.02v20240802-1626\jre.full.win32x86_float_22.02v20240802-1626\jre.full.win32x86_float_22.02v20240802-1626\jre.full.win32x86_float_22.02v20240802-1626\jre.full.win32x86_float_22.02v20240802-1626\jre.full.win32x86_float_22.02v20240802-1626\jre.full.win32x86_float_22.02v20240802-1626\jre.full.win32x86_float_22.02v20240802-1626\jre.full.win32x86_float_22.02v20240802-1626\jre.full.win32x86_float_22.02v20240802-1626\jre.full.win32x86_float_22.02v20240802-1626
```

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

```
5. package mam.Assignment_4;
6.
7. public class p4 {
8.    public static void main(String[] args) {
9.        int num = 42;
10.
11.        double doubleResult = num;
12.        float floatResult = num;
13.        boolean booleanResult = (num != 0);
```

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```
14.
            String stringResult = Integer.toString(num);
15.
16.
            System.out.println("Widening conversion from
  int to double: " + doubleResult);
            System.out.println("Widening conversion from
17.
  int to float: " + floatResult);
            System.out.println("Widening conversion from
18.
  int to boolean: " + booleanResult);
            System.out.println("Widening conversion from
19.
  int to String: " + stringResult);
20.
        }
21. }
```

```
3 public class [4]

4 public static void main(String[] args) {
5 int num = 42;
6
7 double doubleResult = num;
8 float floatResult = num;
9 boolean booleanResult = (num != 0);
10 String stringResult = Integer.toString(num);
11
12 System.out.println("Widening conversion from int to double: " + doubleResult);
13 System.out.println("Widening conversion from int to float: " + floatResult);
14 System.out.println("Widening conversion from int to boolean: " + booleanResult);
15 System.out.println("Widening conversion from int to String: " + stringResult);
16 Console X & Problems D Debug Shell

**terminated- p4 (3) Dava Application [CAUSers/ACERA,p2\pool/plugins\organgledipse,justj.openjdkhotspot.jrefull.win32x86.64.22.02.v20240802-1626\jre\bin\javaw.exe (17 Sept 2024, 12-53:40 arg Widening conversion from int to double: 42.0
Widening conversion from int to boolean: true
Widening conversion from int to String: 42
```