

## Assignment No- 2

### Object Oriented Programing using Java

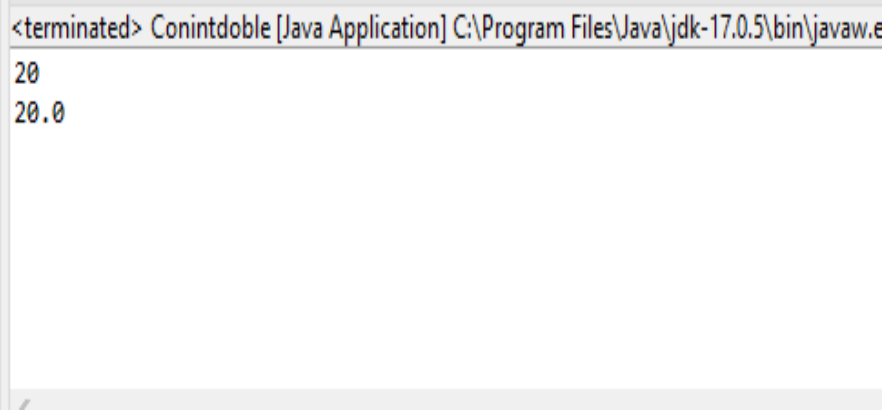
- 1) Write a program that demonstrates widening conversion from int to double and prints the result.

**Code:**

```
package Assignment2;

public class Conintdouble {

    public static void main(String[] args) {
        int i = 20;
        double db = i;
        System.out.println(i);
        System.out.println(db);
    }
}
```



The screenshot shows a Java application window titled "<terminated> Conintdouble [Java Application] C:\Program Files\Java\jdk-17.0.5\bin\javaw.e". The window displays the output of the program, which consists of two lines: "20" and "20.0".

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

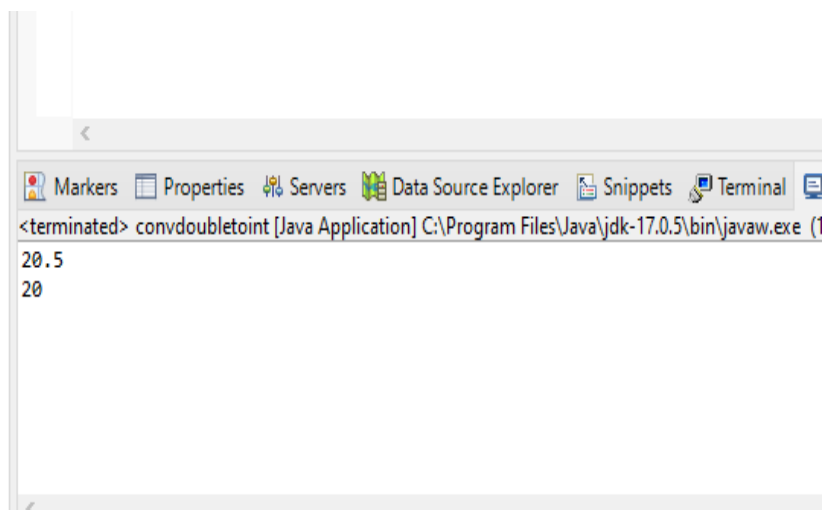
**Code:**

```
package Assignment2;
```

```
public class convdoubletoint {
```

```
    public static void main(String[] args) {  
        // TODO Auto-generated method stub  
        double db = 20.5;  
        int i = (int)db;  
        System.out.println(db);  
        System.out.println(i);  
    }
```

```
}
```



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

**Code:**

```
package Assignment2;

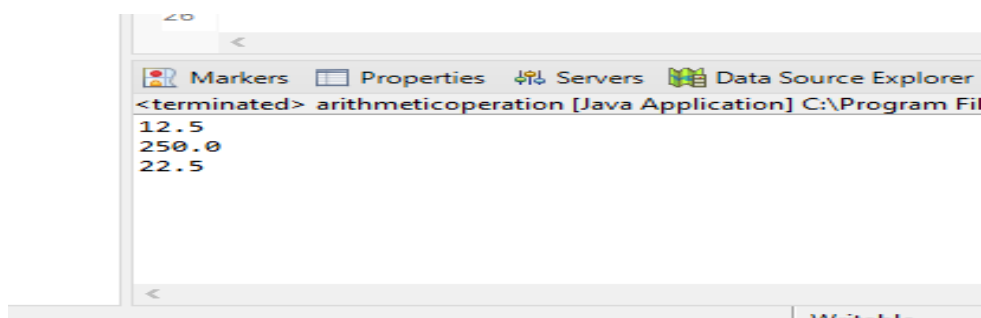
public class arithmeticoperation {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        int i = 10;
        double d = 25.0;
        float f1 = 2.5f;

        float result1 = i + f1;
        double result2 = i*d;
        double result3 = d-f1;
        System.out.println(result1);
        System.out.println(result2);
        System.out.println(result3);

    }

}
```



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

**Code:**

```
package Assignment2;
```

```
public class Conversion1 {
```

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

```
        // TODO Auto-generated method stub
```

```
        int i = 55;
```

```
        double d = i;
```

```
        float f = i;
```

```
        String s = String.valueOf(i);
```

```
        System.out.println(i);
```

```
        System.out.println(d);
```

```
        System.out.println(f);
```

```
        System.out.println(s);
```

```
    }
```

```
}
```



We can't do conversion into Boolean because it is not numeric type