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

```
1
2 public class Conversion_From_Int_To_Double {
3
4   public static void main(String[] args) {
5       // TODO Auto-generated method stub
6 int i=10;
7 double d = (int)i;
8 System.out.println("integer value is "+i);
9 System.out.println("DOuble value is "+d);
10   }
11
12 }
13
```

Problems Javadoc Declaration Console ×
<terminated> Conversion_From_Int_To_Double [Java Application] C:\Users\VAIS
integer value is 10
DOuble value is 10.0

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

```
1
2 public class Conversion_from_double_to_Int {
3
4   public static void main(String[] args) {
5       // TODO Auto-generated method stub
6 double d=10.56;
7 int i = (int)d;
8 System.out.println("double value is "+d);
9 System.out.println("integer value is "+i);
10   }
11
12 }
13
```

Problems Javadoc Declaration Console ×
terminated> Conversion_from_double_to_Int [Java Application] C:\Users\VA
double value is 10.56
integer value is 10

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

```java
1
2 public class Airthmetic_Operations {
3
4⊖    public static void main(String[] args) {
5          // TODO Auto-generated method stub
6 int i=10;
7 double d=20.4;
8 float f=12.89f;
9 double sum= i+d+f;
10 double difference =i-d;
11 double mul=i*f;
12 double div =i/d;
13 System.out.println("sum is "+sum);
14 System.out.println("difference is "+difference);
15 System.out.println("multiplication is  "+mul);
16 System.out.println("division is  "+div);
17    }
18
19 }
20
```

Problems @ Javadoc Declaration Console ×

<terminated> Airthmetic_Operations [Java Application] C:\Users\VAISHNAV\Dow
sum is 43.29000034332275
difference is -10.399999999999999
multiplication is 128.90000915527344
division is 0.4901960784313726

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

```java
1
2 public class Conversion_from_int_to_all_datatypes {
3
4⊖    public static void main(String[] args) {
5          // TODO Auto-generated method stub
6 int i=20;
7 double d= (int) i;
8 float f=(int)i;
9 boolean b =(int)i!=0;
10 String s=String.valueOf(i);
11 System.out.println("int value "+i);
12 System.out.println("double value "+d);
13 System.out.println("float value "+f);
14 System.out.println("boolean value "+b);
15
16
17     }
18
19 }
20 |
```

Problems @ Javadoc Declaration Console ×
<terminated> Conversion_from_int_to_all_datatypes [Java Application] C:\Users\VAISHN
int value 20
double value 20.0
float value 20.0
boolean value true