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

```
=>
package ort.assignment1;

public class Widening {

 public static void main(String[] args) {
 int n=10;
 double result=n;
 System.out.println(result);

 }

}
```
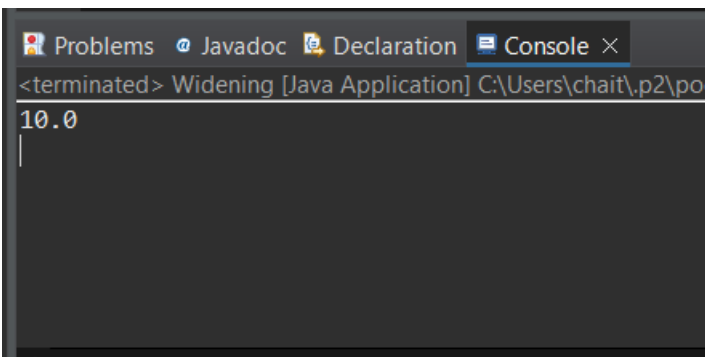
```
Problems  @ Javadoc  Declaration  Console ×
<terminated> Widening [Java Application] C:\Users\chait\.p2\po
10.0
```

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

```
=>
package ort.assignment1;

public class Narrowing {

 public static void main(String[] args) {
 double n=10;
 int result=(int)n;
 System.out.println(result);

 }

}
```

```
package ort.assignment1;

public class Narrowing {

 public static void main(String[] args) {
 double n=10;
 int result=n;
 System.out.println(result);

 }

}
```
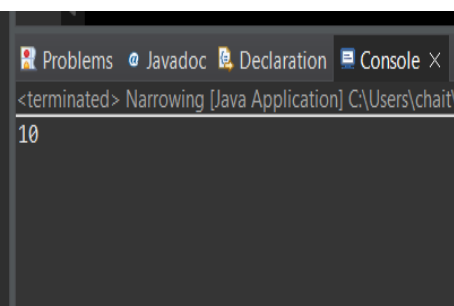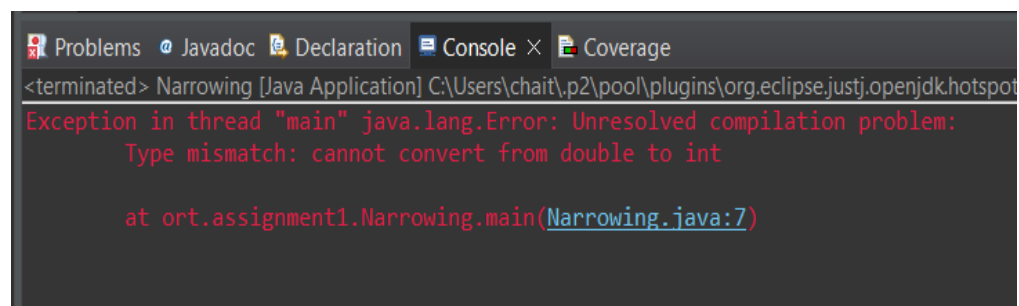
```
Problems  @ Javadoc  Declaration  Console ×
<terminated> Narrowing [Java Application] C:\Users\chait\
10
```

```
Problems  @ Javadoc  Declaration  Console ×  Coverage
<terminated> Narrowing [Java Application] C:\Users\chait\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot
Exception in thread "main" java.lang.Error: Unresolved compilation problem:
        Type mismatch: cannot convert from double to int

        at ort.assignment1.Narrowing.main(Narrowing.java:7)
```

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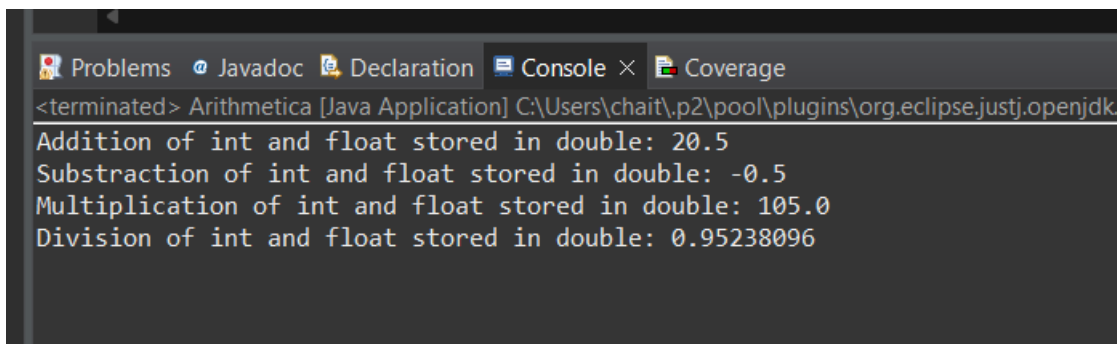=>

```java
package ort.assignment1;

public class Arithmetica {
public static void main(String[] args) {
 int intN=10;
 double doubleN=10d;
 float floatN=10.5f;

 System.out.println("Addition of int and float stored in double: "+(intN+floatN));
 System.out.println("Substraction of int and float stored in double: "+(intN-floatN));
 System.out.println("Multiplication of int and float stored in double: "+(intN*floatN));
 System.out.println("Addition of int and float stored in double: "+(intN/floatN));

}
}
```



```
Problems  @ Javadoc  Declaration  Console ×  Coverage
<terminated> Arithmetica [Java Application] C:\Users\chait\.p2\pool\plugins\org.eclipse.justj.openjdk.
Addition of int and float stored in double: 20.5
Substraction of int and float stored in double: -0.5
Multiplication of int and float stored in double: 105.0
Division of int and float stored in double: 0.95238096
```
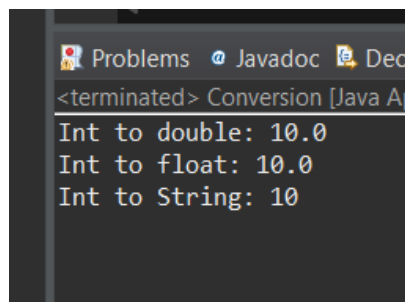
4) Write a Program that demonstrates widening conversion from int to (double,float, boolean, string) and prints the result.
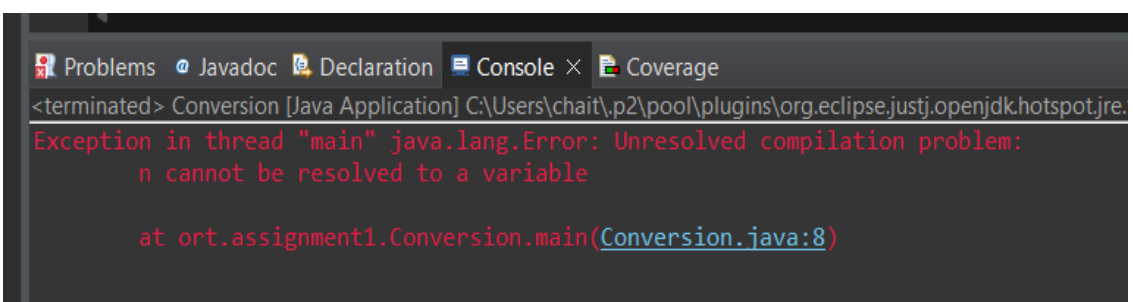
```java
package ort.assignment1;

public class Conversion {
public static void main(String[] args) {
 int n=10;
 double d=n;
 float f=n;
// boolean b=(boolean)n;
 String s=Integer.toString(n);

 System.out.println("Int to double: "+d);
 System.out.println("Int to float: "+f);
 System.out.println("Int to String: "+s);
}
}
```

```java
package ort.assignment1;

public class Conversion {
public static void main(String[] args) {
// int n=10;
// double d=n;
// float f=n;
 boolean b=(boolean)n;
// String s=Integer.toString(n);

 System.out.println("Int to boolean: "+b);
}
}
```



```
Problems  @ Javadoc  Dec
<terminated> Conversion [Java A
Int to double: 10.0
Int to float: 10.0
Int to String: 10
```

```
Problems  @ Javadoc  Declaration  Console ×  Coverage
<terminated> Conversion [Java Application] C:\Users\chait\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.
Exception in thread "main" java.lang.Error: Unresolved compilation problem:
        n cannot be resolved to a variable

        at ort.assignment1.Conversion.main(Conversion.java:8)
```