

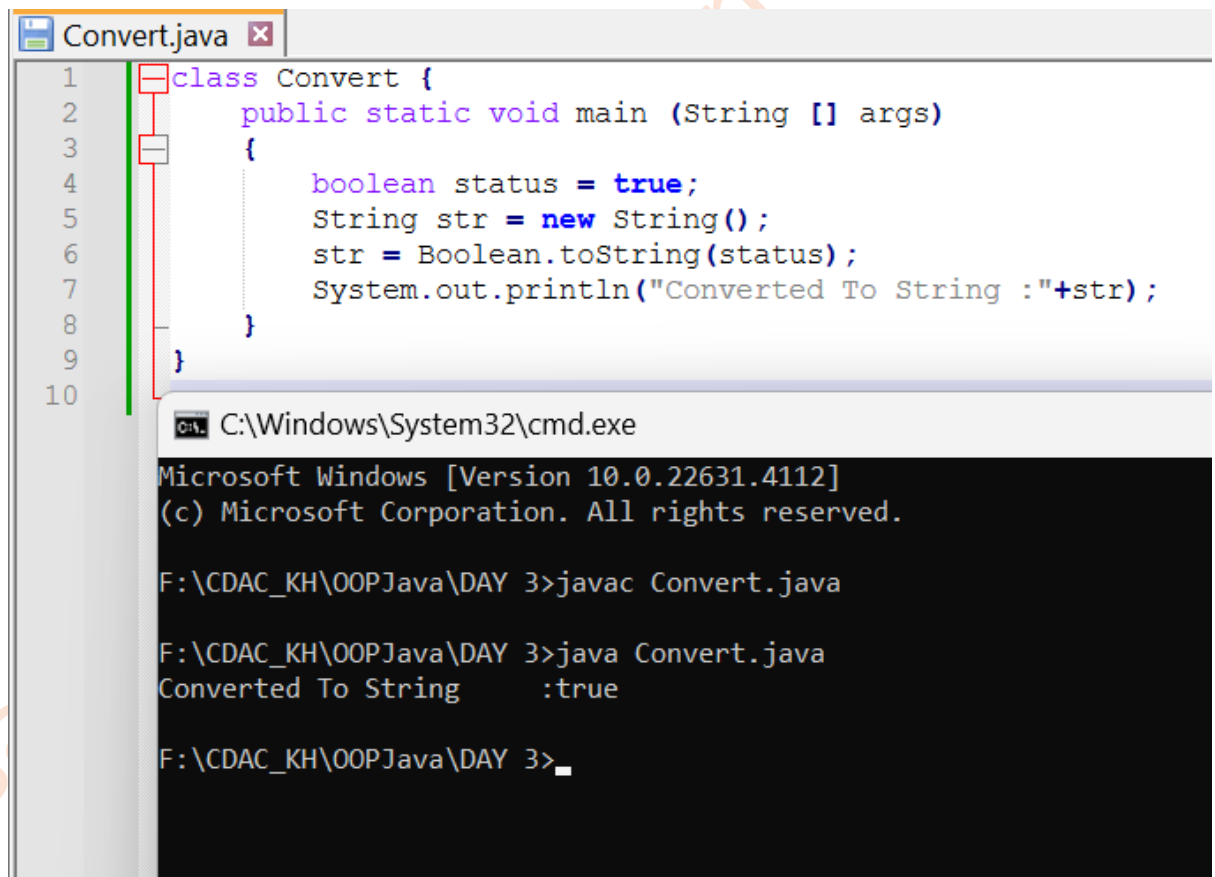
Note: Consider the following before starting the assignment:

- A **static field** declared inside a class is called a **class-level variable**. To access this variable, use the class name and the dot operator (e.g., `Integer.MAX_VALUE`).
- A **static method** defined inside a class is called a **class-level method**. To access this method, use the class name and the dot operator (e.g., `Integer.parseInt()`).
- When accessing static members within the same class, you do not need to use the class name.

1. Working with `java.lang.Boolean`

a. Explore the [Java API documentation for `java.lang.Boolean`](#) and observe its modifiers and super types.

b. Declare a method-local variable `status` of type `boolean` with the value `true` and convert it to a `String` using the `toString` method. (Hint: Use `Boolean.toString(Boolean)`).



```
1 class Convert {
2     public static void main (String [] args)
3     {
4         boolean status = true;
5         String str = new String();
6         str = Boolean.toString(status);
7         System.out.println("Converted To String :"+str);
8     }
9 }
10
```

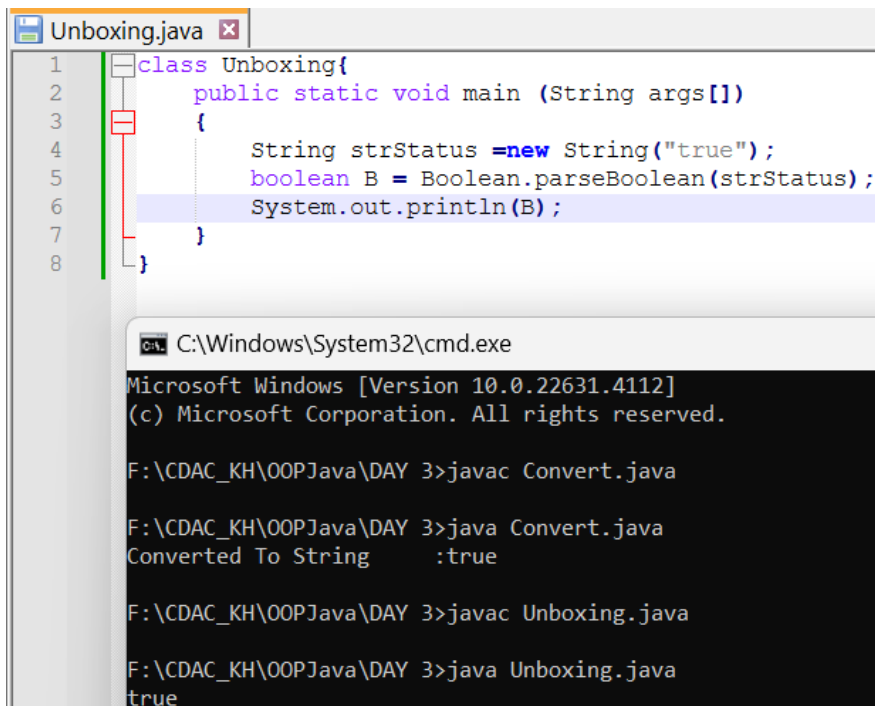
```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.22631.4112]
(c) Microsoft Corporation. All rights reserved.

F:\CDAC_KH\OOPJava\DAY 3>javac Convert.java

F:\CDAC_KH\OOPJava\DAY 3>java Convert.java
Converted To String      :true

F:\CDAC_KH\OOPJava\DAY 3>_
```

c. Declare a method-local variable `strStatus` of type `String` with the value `"true"` and convert it to a `boolean` using the `parseBoolean` method. (Hint: Use `Boolean.parseBoolean(String)`).



```

class Unboxing{
    public static void main (String args[])
    {
        String strStatus =new String("true");
        boolean B = Boolean.parseBoolean(strStatus);
        System.out.println(B);
    }
}

```

```

C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.22631.4112]
(c) Microsoft Corporation. All rights reserved.

F:\CDAC_KH\OOPJava\DAY 3>javac Convert.java

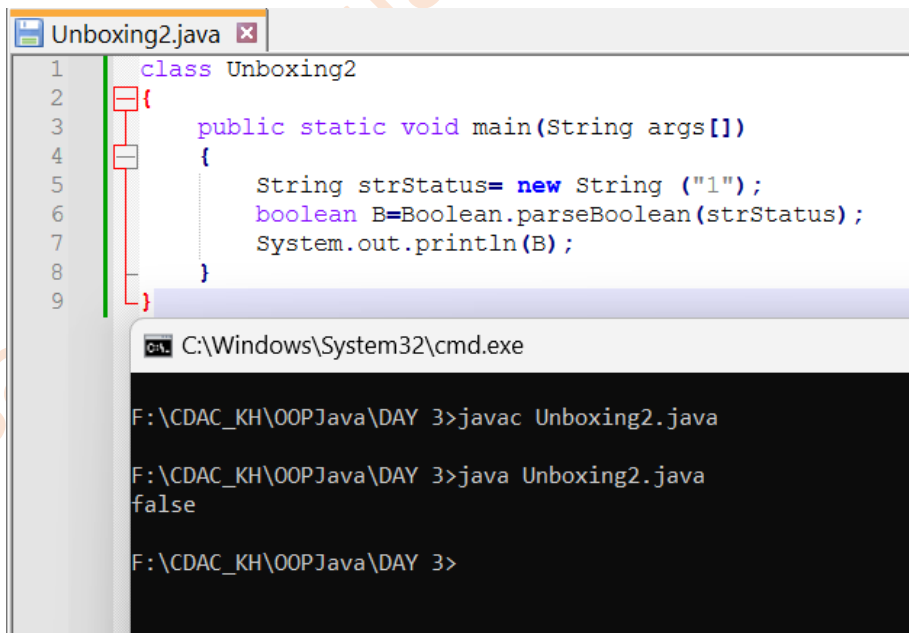
F:\CDAC_KH\OOPJava\DAY 3>java Convert.java
Converted To String      :true

F:\CDAC_KH\OOPJava\DAY 3>javac Unboxing.java

F:\CDAC_KH\OOPJava\DAY 3>java Unboxing.java
true

```

d. Declare a method-local variable `strStatus` of type `String` with the value `"1"` or `"0"` and attempt to convert it to a `boolean`. (Hint: `parseBoolean` method will not work as expected with `"1"` or `"0"`).



```

class Unboxing2
{
    public static void main(String args[])
    {
        String strStatus= new String ("1");
        boolean B=Boolean.parseBoolean(strStatus);
        System.out.println(B);
    }
}

```

```

C:\Windows\System32\cmd.exe

F:\CDAC_KH\OOPJava\DAY 3>javac Unboxing2.java

F:\CDAC_KH\OOPJava\DAY 3>java Unboxing2.java
false

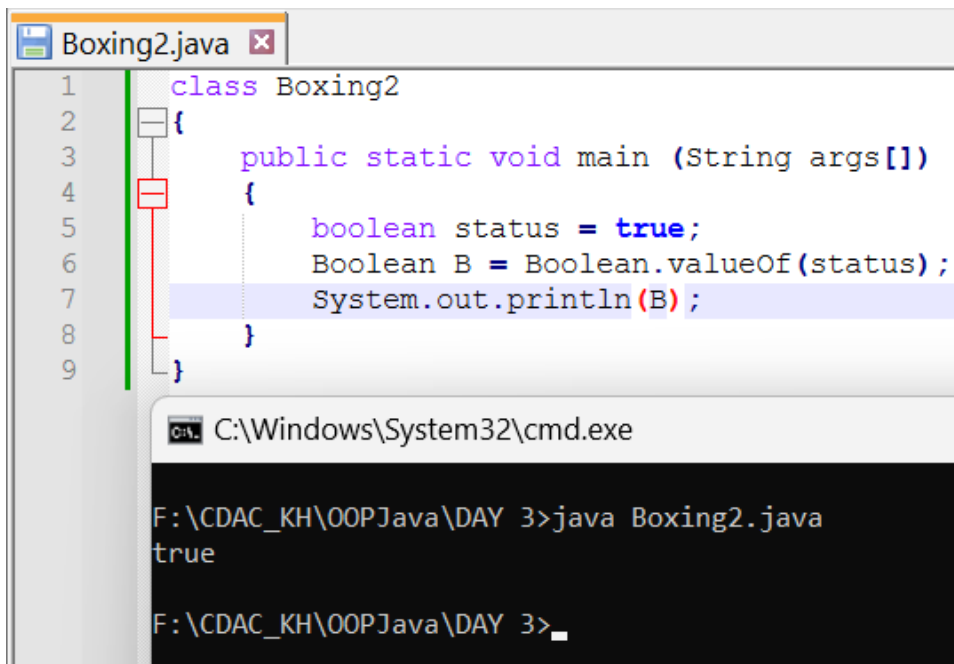
F:\CDAC_KH\OOPJava\DAY 3>

```

Explanation: As `Boolean` stores only **true** or **false** in java but string `strStatus` passes the value `"1"` or `"0"` which result unexpected output.

ASSIGNMENT NO.2

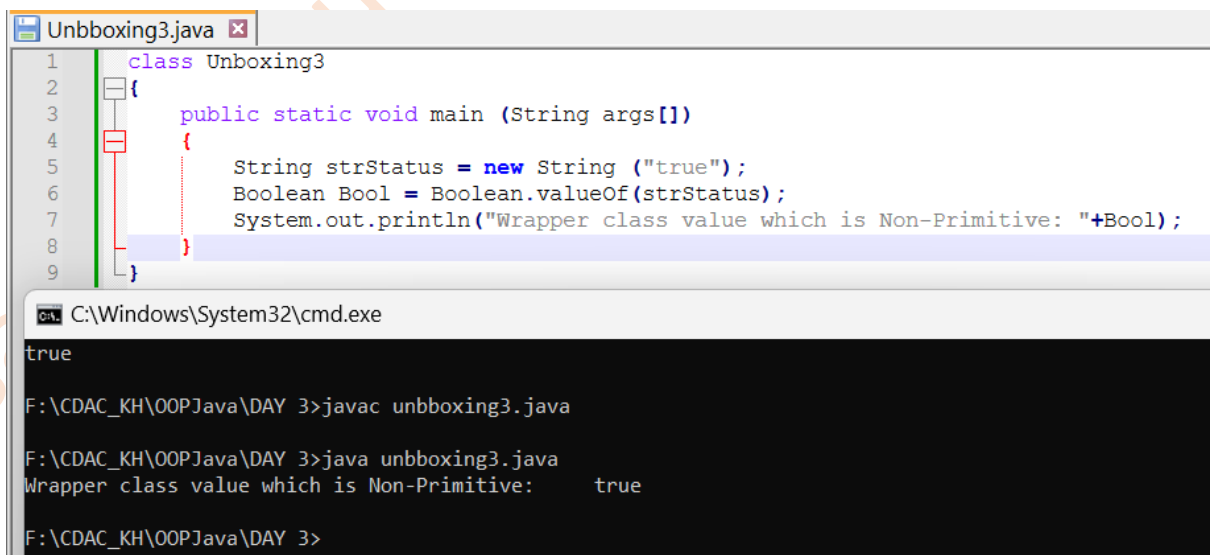
e. Declare a method-local variable `status` of type `boolean` with the value `true` and convert it to the corresponding wrapper class using `Boolean.valueOf()`. (Hint: Use `Boolean.valueOf(boolean)`).



```
Boxing2.java
1  class Boxing2
2  {
3      public static void main (String args[])
4      {
5          boolean status = true;
6          Boolean B = Boolean.valueOf(status);
7          System.out.println(B);
8      }
9  }
```

```
C:\Windows\System32\cmd.exe
F:\CDAC_KH\OOPJava\DAY 3>java Boxing2.java
true
F:\CDAC_KH\OOPJava\DAY 3>
```

f. Declare a method-local variable `strStatus` of type `String` with the value `"true"` and convert it to the corresponding wrapper class using `Boolean.valueOf()`. (Hint: Use `Boolean.valueOf(String)`).



```
Unboxing3.java
1  class Unboxing3
2  {
3      public static void main (String args[])
4      {
5          String strStatus = new String ("true");
6          Boolean Bool = Boolean.valueOf(strStatus);
7          System.out.println("Wrapper class value which is Non-Primitive: "+Bool);
8      }
9  }
```

```
C:\Windows\System32\cmd.exe
true
F:\CDAC_KH\OOPJava\DAY 3>javac unboxing3.java
F:\CDAC_KH\OOPJava\DAY 3>java unboxing3.java
Wrapper class value which is Non-Primitive:  true
F:\CDAC_KH\OOPJava\DAY 3>
```

g. Experiment with converting a `boolean` value into other primitive types or vice versa and observe the results.

```

1  class typeCasting
2  {
3      public static void main (String args[])
4      {
5          boolean B = true;
6          int A=(int)B;
7          int i=30;
8          boolean X=(boolean)i;
9          System.out.println(A);
10         System.out.println(X);
11     }
12 }

```

Select C:\Windows\System32\cmd.exe

```

Wrapper class value which is Non-Primitive:    true

F:\CDAC_KH\OOPJava\DAY 3>javac typeCasting.java
typeCasting.java:6: error: incompatible types: boolean cannot be converted to int
    int A=(int)B;
                ^
typeCasting.java:8: error: incompatible types: int cannot be converted to boolean
    boolean X=(boolean)i;
                  ^
2 errors
F:\CDAC_KH\OOPJava\DAY 3>

```

2. Working with `java.lang.Byte`

a. Explore the [Java API documentation for `java.lang.Byte`](#) and observe its modifiers and super types.

b. Write a program to test how many bytes are used to represent a `byte` value using the `BYTES` field. (Hint: Use `Byte.BYTES`).

```

1  class Size2DSyntax{
2      public static void main (String args[])
3      {
4          System.out.println(Byte.BYTES);
5      }
6  }

```

C:\Windows\System32\cmd.exe

```

System.out.println(Byte.BYTES)
                        ^
error

:\CDAC_KH\OOPJava\DAY 3>javac Size.java

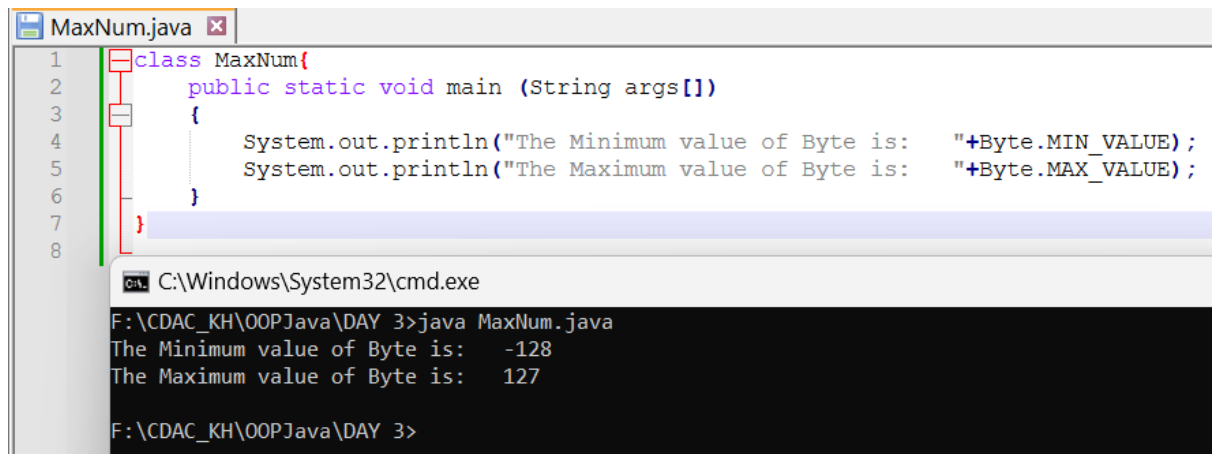
:\CDAC_KH\OOPJava\DAY 3>java Size.java

:\CDAC_KH\OOPJava\DAY 3>

```

ASSIGNMENT NO.2

c. Write a program to find the minimum and maximum values of `byte` using the `MIN_VALUE` and `MAX_VALUE` fields. (Hint: Use `Byte.MIN_VALUE` and `Byte.MAX_VALUE`).

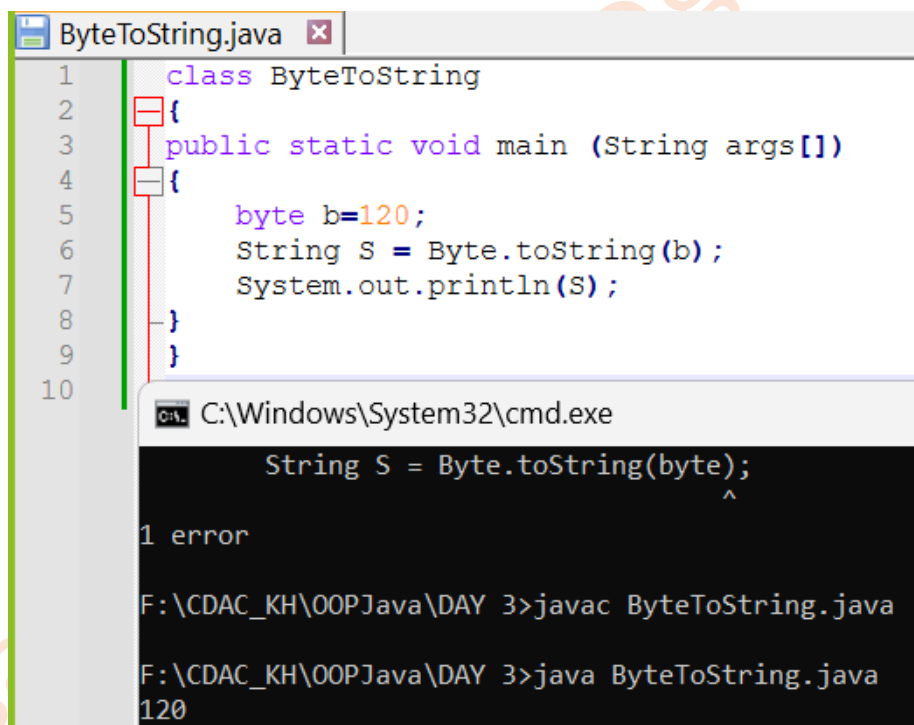


```
1 class MaxNum{
2     public static void main (String args[])
3     {
4         System.out.println("The Minimum value of Byte is: "+Byte.MIN_VALUE);
5         System.out.println("The Maximum value of Byte is: "+Byte.MAX_VALUE);
6     }
7 }
8
```

C:\Windows\System32\cmd.exe

```
F:\CDAC_KH\OOPJava\DAY 3>java MaxNum.java
The Minimum value of Byte is:  -128
The Maximum value of Byte is:  127
F:\CDAC_KH\OOPJava\DAY 3>
```

d. Declare a method-local variable `number` of type `byte` with some value and convert it to a `String` using the `toString` method. (Hint: Use `Byte.toString(byte)`).



```
1 class ByteToString
2 {
3     public static void main (String args[])
4     {
5         byte b=120;
6         String S = Byte.toString(b);
7         System.out.println(S);
8     }
9 }
10
```

C:\Windows\System32\cmd.exe

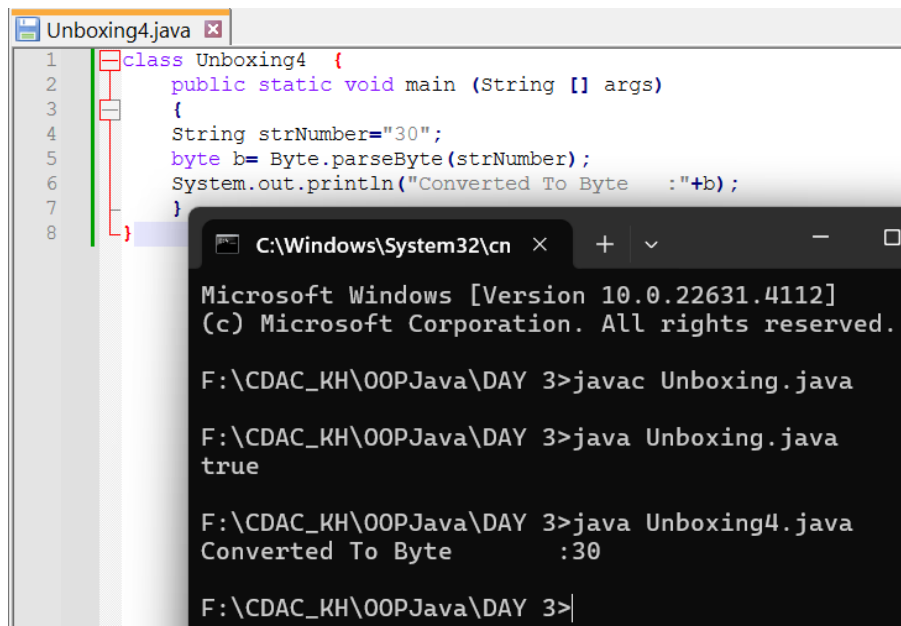
```
String S = Byte.toString(byte);
                        ^
1 error

F:\CDAC_KH\OOPJava\DAY 3>javac ByteToString.java

F:\CDAC_KH\OOPJava\DAY 3>java ByteToString.java
120
```

ASSIGNMENT NO.2

e. Declare a method-local variable `strNumber` of type `String` with some value and convert it to a byte value using the `parseByte` method. (Hint: Use `Byte.parseByte(String)`).



```
Unboxing4.java x
1 class Unboxing4 {
2     public static void main (String [] args)
3     {
4         String strNumber="30";
5         byte b= Byte.parseByte(strNumber);
6         System.out.println("Converted To Byte : "+b);
7     }
8 }
```

C:\Windows\System32\cmd.exe

Microsoft Windows [Version 10.0.22631.4112]
(c) Microsoft Corporation. All rights reserved.

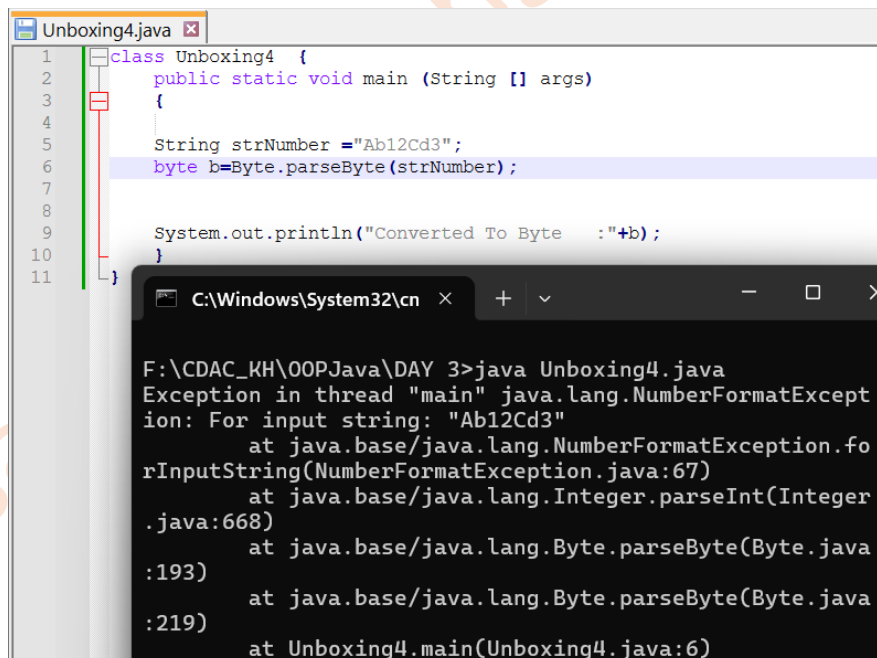
F:\CDAC_KH\OOPJava\DAY 3>javac Unboxing.java

F:\CDAC_KH\OOPJava\DAY 3>java Unboxing.java
true

F:\CDAC_KH\OOPJava\DAY 3>java Unboxing4.java
Converted To Byte : 30

F:\CDAC_KH\OOPJava\DAY 3>

f. Declare a method-local variable `strNumber` of type `String` with the value "Ab12Cd3" and attempt to convert it to a byte value. (Hint: `parseByte` method will throw a `NumberFormatException`).



```
Unboxing4.java x
1 class Unboxing4 {
2     public static void main (String [] args)
3     {
4         String strNumber ="Ab12Cd3";
5         byte b=Byte.parseByte(strNumber);
6
7
8
9         System.out.println("Converted To Byte : "+b);
10    }
11 }
```

C:\Windows\System32\cmd.exe

F:\CDAC_KH\OOPJava\DAY 3>java Unboxing4.java

Exception in thread "main" java.lang.NumberFormatException: For input string: "Ab12Cd3"

at java.base/java.lang.NumberFormatException.forInputString(NumberFormatException.java:67)

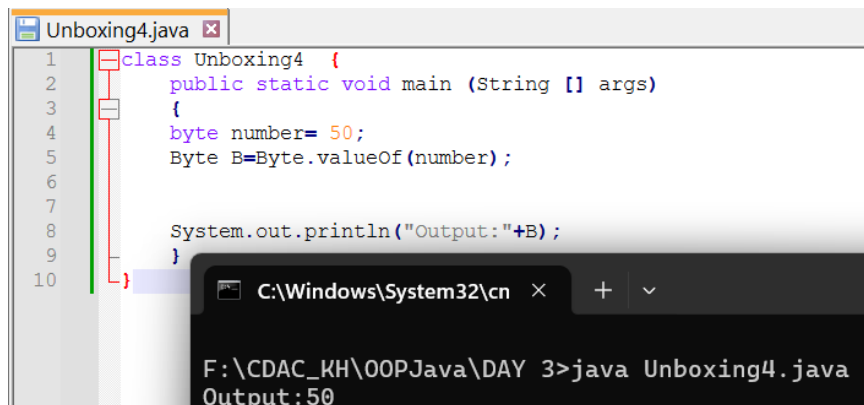
at java.base/java.lang.Integer.parseInt(Integer.java:668)

at java.base/java.lang.Byte.parseByte(Byte.java:193)

at java.base/java.lang.Byte.parseByte(Byte.java:219)

at Unboxing4.main(Unboxing4.java:6)

g. Declare a method-local variable `number` of type `byte` with some value and convert it to the corresponding wrapper class using `Byte.valueOf()`. (Hint: Use `Byte.valueOf(byte)`).

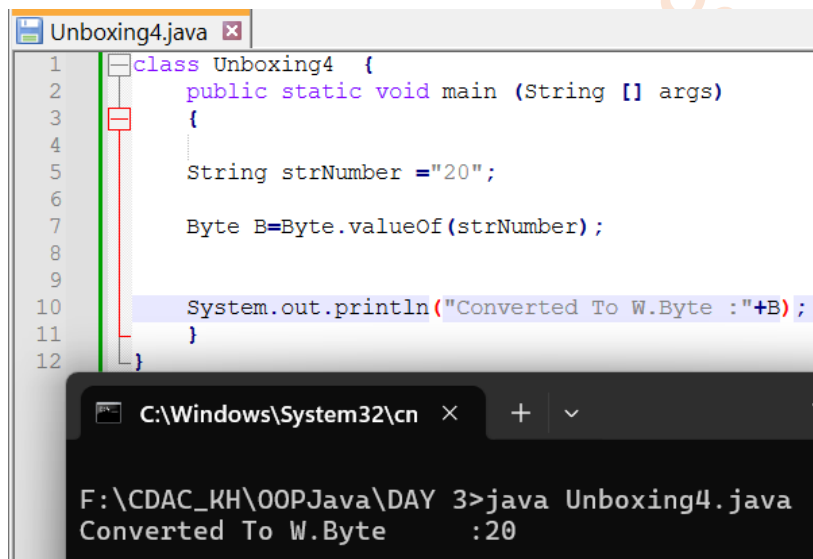


```

1  class Unboxing4 {
2      public static void main (String [] args)
3      {
4          byte number= 50;
5          Byte B=Byte.valueOf(number);
6
7
8          System.out.println("Output:"+B);
9      }
10 }
    
```

Output: 50

h. Declare a method-local variable `strNumber` of type `String` with some `byte` value and convert it to the corresponding wrapper class using `Byte.valueOf()`. (Hint: Use `Byte.valueOf(String)`).

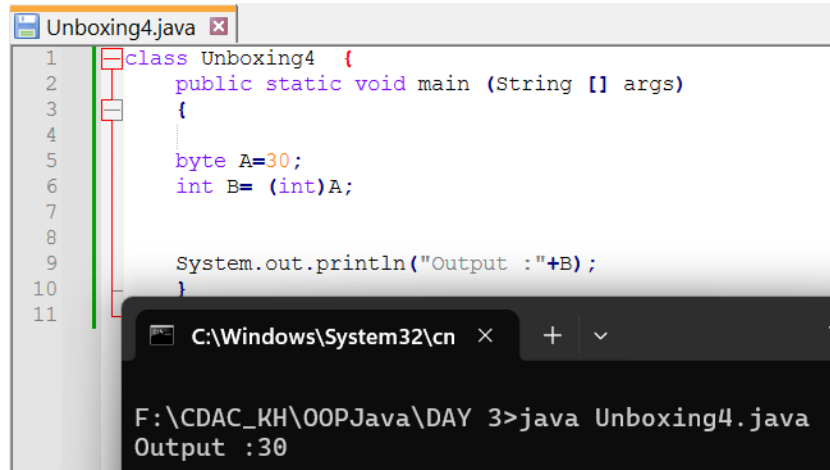


```

1  class Unboxing4 {
2      public static void main (String [] args)
3      {
4
5          String strNumber ="20";
6
7          Byte B=Byte.valueOf(strNumber);
8
9
10         System.out.println("Converted To W.Byte :"+B);
11     }
12 }
    
```

Converted To W.Byte :20

- i. Experiment with converting a `byte` value into other primitive types or vice versa and observe the results.



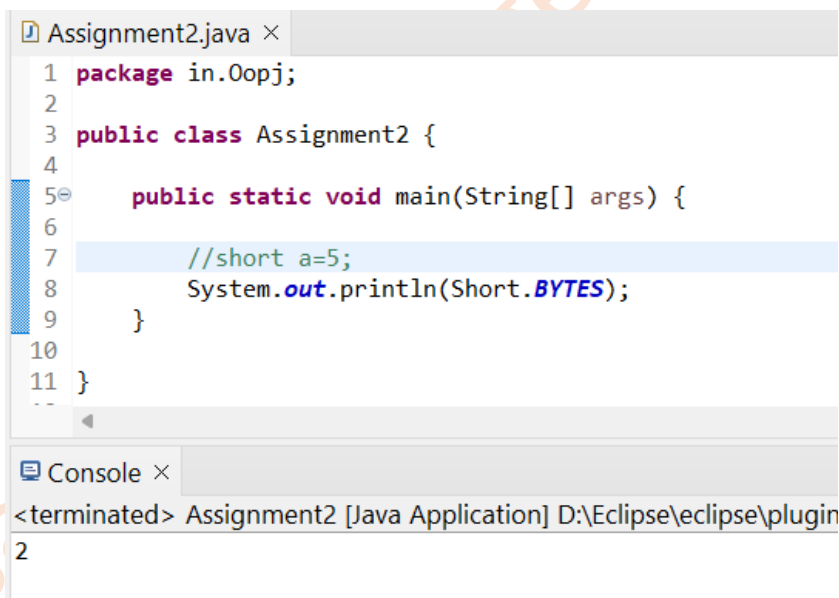
```

1  class Unboxing4 {
2      public static void main (String [] args)
3      {
4          ...
5          byte A=30;
6          int B= (int)A;
7
8
9          System.out.println("Output :"+B);
10     }
11 }
    
```

Output :30

3. Working with `java.lang.Short`

- a. Explore the [Java API documentation for `java.lang.Short`](#) and observe its modifiers and super types.
- b. Write a program to test how many bytes are used to represent a `short` value using the `BYTES` field. (Hint: Use `Short.BYTES`).



```

1  package in.Oopj;
2
3  public class Assignment2 {
4
5      public static void main(String[] args) {
6
7          //short a=5;
8          System.out.println(Short.BYTES);
9      }
10
11 }
    
```

<terminated> Assignment2 [Java Application] D:\Eclipse\eclipse\plugin

c. Write a program to find the minimum and maximum values of `short` using the `MIN_VALUE` and `MAX_VALUE` fields. (Hint: Use `Short.MIN_VALUE` and `Short.MAX_VALUE`).

```

Assignment2.java ×
1 package in.0opj;
2
3 public class Assignment2 {
4
5     public static void main(String[] args) {
6
7         //short a=5;
8         System.out.println(Short.MIN_VALUE + "-" + Short.MAX_VALUE);
9
10    }

```

```

Console ×
<terminated> Assignment2 [Java Application] D:\Eclipse\eclipse\plugins\org.eclipse.j
-32768-32767

```

d. Declare a method-local variable `number` of type `short` with some value and convert it to a `String` using the `toString` method. (Hint: Use `Short.toString(short)`).

```

Assignment2.java ×
1 package in.0opj;
2
3 public class Assignment2 {
4
5     public static void main(String[] args) {
6
7         short number=5;
8         System.out.println( " String is :"+Short.toString(number));
9
10    }

```

```

Console ×
String is :5

```

e. Declare a method-local variable `strNumber` of type `String` with some value and convert it to a `short` value using the `parseShort` method. (Hint: Use `Short.parseShort(String)`).

ASSIGNMENT NO.2

```

Assignment2.java x
1 package in.0opj;
2
3 public class Assignment2 {
4
5     public static void main(String[] args) {
6
7         //short number=5;
8         String strNumber ="25";
9         System.out.println( " Short is :"+Short.parseShort(strNumber));
10
    }
}

Console x
<terminated> Assignment2 [Java Application] D:\Eclipse\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64.jdk\bin\java.exe
Short is :25

```

f. Declare a method-local variable `strNumber` of type `String` with the value "Ab12Cd3" and attempt to convert it to a short value. (Hint: `parseShort` method will throw a `NumberFormatException`).

```

Assignment2.java x
1 package in.0opj;
2
3 public class Assignment2 {
4
5     public static void main(String[] args) {
6
7         //short number=5;
8         String strNumber ="Ab12Cd3";
9         System.out.println( " Short is :"+Short.parseShort(strNumber));
10
    }
}

Console x
<terminated> Assignment2 [Java Application] D:\Eclipse\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64.jdk\bin\java.exe
Exception in thread "main" java.lang.NumberFormatException: For input string: "Ab12Cd3"
    at java.base/java.lang.NumberFormatException.forInputString(NumberFormatException.java:67)
    at java.base/java.lang.Integer.parseInt(Integer.java:662)
    at java.base/java.lang.Short.parseShort(Short.java:138)
    at java.base/java.lang.Short.parseShort(Short.java:164)
    at in.0opj.Assignment2.main(Assignment2.java:9)

```

g. Declare a method-local variable `number` of type `short` with some value and convert it to the corresponding wrapper class using `Short.valueOf()`. (Hint: Use `Short.valueOf(short)`).

```

Assignment2.java x
5     public static void main(String[] args) {
6
7         short number=5;
8         //String strNumber ="Ab12Cd3";
9         System.out.println( " wrapper class Short is :"+Short.valueOf(number));
10
11     }
12 }
13
14

Console x
<terminated> Assignment2 [Java Application] D:\Eclipse\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64.jdk\bin\java.exe
wrapper class Short is :5

```

h. Declare a method-local variable `strNumber` of type `String` with some short value and convert it to the corresponding wrapper class using `Short.valueOf()`. (Hint: Use `Short.valueOf(String)`).

```
Assignment2.java x
5 public static void main(String[] args) {
6
7     //short number=5;
8     String strNumber = "3";
9     System.out.println( " wrapper class Short is :"+Short.valueOf(strNumber));
10
11 }
12
13 }
14
```

```
Console x
<terminated> Assignment2 [Java Application] D:\Eclipse\eclipse\plugins\org.eclipse.justj.openjdk.hotsp
wrapper class Short is :3
```

i. Experiment with converting a `short` value into other primitive types or vice versa and observe the results.

```
Assignment2.java x
6
7     short number=5;
8     //String strNumber = "3";
9     int a=25;
10    System.out.println( "Short is :"+(short)a);
11    System.out.println( "Integer is :"+(int)number);
12 }
13
14 }
15
```

```
Console x
<terminated> Assignment2 [Java Application] D:\Eclipse\eclipse\plugins\
Short is :25
Integer is :5
```

4. Working with `java.lang.Integer`

a. Explore the [Java API documentation for `java.lang.Integer`](#) and observe its modifiers and super types

b. Write a program to test how many bytes are used to represent an `int` value using the `BYTES` field. (Hint: Use `Integer.BYTES`).

```
Assignment2.java x
5 public static void main(String[] args) {
6
7
8     //String strNumber = "3";
9     //int a=25;
10    System.out.println( Integer.BYTES);
11 }
12
13 }
14
```

```
Console x
<terminated> Assignment2 [Java Application] D:\Eclipse\eclipse\
4
```

ASSIGNMENT NO.2

c. Write a program to find the minimum and maximum values of `int` using the `MIN_VALUE` and `MAX_VALUE` fields. (Hint: Use `Integer.MIN_VALUE` and `Integer.MAX_VALUE`).

```
Assignment2.java ×
1 package in.Oopj;
2
3 public class Assignment2 {
4
5     public static void main(String[] args) {
6
7
8         //String strNumber ="3";
9         //int a=25;
10        System.out.println( Integer.MIN_VALUE + " to "+Integer.MAX_VALUE);
11    }
12 }
13 }
14 }

Console ×
<terminated> Assignment2 [Java Application] D:\Eclipse\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64.jdk\bin\java.exe
-2147483648 to 2147483647
```

d. Declare a method-local variable `number` of type `int` with some value and convert it to a `String` using the `toString` method. (Hint: Use `Integer.toString(int)`).

```
Assignment2.java ×
5     public static void main(String[] args) {
6
7
8         //String strNumber ="3";
9         int number=25;
10        System.out.println( "String is : "+Integer.toString(number));
11    }
12 }
13 }
14 }

Console ×
<terminated> Assignment2 [Java Application] D:\Eclipse\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64.jdk\bin\java.exe
String is : 25
```

e. Declare a method-local variable `strNumber` of type `String` with some value and convert it to an `int` value using the `parseInt` method. (Hint: Use `Integer.parseInt(String)`).

```
Assignment2.java ×
5     public static void main(String[] args) {
6
7
8         String strNumber ="3";
9         //int number=25;
10        System.out.println( "converted String into int is : "+Integer.parseInt(strNumber));
11    }
12 }
13 }
14 }

Console ×
<terminated> Assignment2 [Java Application] D:\Eclipse\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64.jdk\bin\java.exe
converted String into int is : 3
```

ASSIGNMENT NO.2

f. Declare a method-local variable `strNumber` of type `String` with the value "Ab12Cd3" and attempt to convert it to an `int` value. (Hint: `parseInt` method will throw a `NumberFormatException`).

```

Assignment2.java ×
5 public static void main(String[] args) {
6
7
8     String strNumber = "Ab12Cd3";
9     //int number=25;
10    System.out.println( "converted String into int is : " +Integer.parseInt(strNumber));
11 }
12
13 }
14

```

```

Console ×
<terminated> Assignment2 [Java Application] D:\Eclipse\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x
Exception in thread "main" java.lang.NumberFormatException: For input string: "Ab12Cd3"
    at java.base/java.lang.NumberFormatException.forInputString(NumberFormatException.java:67)
    at java.base/java.lang.Integer.parseInt(Integer.java:662)
    at java.base/java.lang.Integer.parseInt(Integer.java:778)
    at in.Oopj.Assignment2.main(Assignment2.java:10)

```

g. Declare a method-local variable `number` of type `int` with some value and convert it to the corresponding wrapper class using `Integer.valueOf()`. (Hint: Use `Integer.valueOf(int)`).

```

Assignment2.java ×
5 public static void main(String[] args) {
6
7
8     String strNumber = "Ab12Cd3";
9     int number=25;
10    System.out.println( " Wrapper class int is : " +Integer.valueOf(number));
11 }
12
13 }
14

```

```

Console ×
<terminated> Assignment2 [Java Application] D:\Eclipse\eclipse\plugins\org.eclipse.justj.openjdk.hotspot
Wrapper class int is :      25

```

h. Declare a method-local variable `strNumber` of type `String` with some integer value and convert it to the corresponding wrapper class using `Integer.valueOf()`. (Hint: Use `Integer.valueOf(String)`).

```

*Assignment2.java ×
5 public static void main(String[] args) {
6
7
8     String strNumber = "5";
9     // int number=25;
10    System.out.println( " Wrapper class int Collected value from string is : " +Integer.valueOf(strNumber));
11 }
12
13 }
14

```

```

Console ×
<terminated> Assignment2 [Java Application] D:\Eclipse\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_21.0.3.v2024042
Wrapper class int is :      5

```

ASSIGNMENT NO.2

i. Declare two integer variables with values 10 and 20, and add them using a method from the `Integer` class. (Hint: Use `Integer.sum(int, int)`).

```
Assignment2.java ×
5 public static void main(String[] args) {
6
7
8     String strNumber = "5";
9     int number=10;
10    int number2=20;
11    System.out.println( "The Addition (sum) of Two Integer is : "+Integer.sum(number2, number));
12 }
13
14 }
```

```
Console ×
<terminated> Assignment2 [Java Application] D:\Eclipse\ eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64
The Addition (sum) of Two Integer is : 30
```

j. Declare two integer variables with values 10 and 20, and find the minimum and maximum values using the `Integer` class. (Hint: Use `Integer.min(int, int)` and `Integer.max(int, int)`).

```
Assignment2.java ×
5 public static void main(String[] args) {
6
7
8     String strNumber = "5";
9     int number=10;
10    int number2=20;
11    System.out.println( "Maximum number"+Integer.max(number, number2));
12    System.out.println( "Minimum number"+Integer.min(number, number2));
13 }
14 }
```

```
Console ×
<terminated> Assignment2 [Java Application] D:\Eclipse\ eclipse\plugins\org.eclipse.justj.openjdk.hotspot
Maximum number20
Minimum number10
```

k. Declare an integer variable with the value 7. Convert it to binary, octal, and hexadecimal strings using methods from the `Integer` class. (Hint: Use `Integer.toBinaryString(int)`, `Integer.toOctalString(int)`, and `Integer.toHexString(int)`).

```
Assignment2.java ×
6
7
8     String strNumber = "5";
9     int number=7;
10    //int number2=20;
11    System.out.println( " binary, octal, and hexadecimal "+Integer.toBinaryString(number)+" "+ Integer.toOctalString(number)+" "+ Integer.toHexString(number));
12 }
13
14 }
15 }
```

```
Console ×
<terminated> Assignment2 [Java Application] D:\Eclipse\ eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_21.0.3.v20240426-1530\jre\bin\javaw.exe (06-Sept-2024, 11:58:54 am - 11:5
binary, octal, and hexadecimal 111 7 7
```

I. Experiment with converting an `int` value into other primitive types or vice versa and observe the results.

```
Assignment2.java ×
6
7
8      String strNumber = "5";
9      int number=7;
10     //int number2=20;
11     System.out.println(" float "+(float)number);
12

Console ×
<terminated> Assignment2 [Java Application] D:\Eclipse\eclipse\
float 7.0
```

5. Working with `java.lang.Long`

a. Explore the [Java API documentation for `java.lang.Long`](#) and observe its modifiers and super types.

b. Write a program to test how many bytes are used to represent a `long` value using the `BYTES` field. (Hint: Use `Long.BYTES`).

```
Assignment2.java ×
6
7
8      //String strNumber = "5";
9      long number=739781346;
10     //int number2=20;
11     System.out.println(Long.BYTES);
12

Console ×
<terminated> Assignment2 [Java Application] D:\Ecli
8
```

c. Write a program to find the minimum and maximum values of `long` using the `MIN_VALUE` and `MAX_VALUE` fields. (Hint: Use `Long.MIN_VALUE` and `Long.MAX_VALUE`).

```
Assignment2.java ×
6
7
8      //String strNumber = "5";
9      long number=739781346;
10     //int number2=20;
11     System.out.println(Long.MIN_VALUE+"
12

Console ×
<terminated> Assignment2 [Java Application] D:\Ec
-9223372036854775808 to 9223372036854775807
```

d. Declare a method-local variable `number` of type `long` with some value and convert it to a `String` using the `toString` method. (Hint: Use `Long.toString(long)`).

```

*Assignment2.java x
6
7
8    //String strNumber ="5";
9    long number=739781346;
10   //int number2=20;
11   System.out.println("String is :"+Long.toString(number));
12

```

```

Console x
<terminated> Assignment2 [Java Application] D:\Eclipse\eclipse\plugins\org.
String is : 739781346

```

e. Declare a method-local variable `strNumber` of type `String` with some value and convert it to a `long` value using the `parseLong` method. (Hint: Use `Long.parseLong(String)`).

```

Assignment2.java x
5    public static void main(String[] args) {
6
7
8    String strNumber ="112233445566778899";
9    long number=739781346;
10   //int number2=20;
11   System.out.println("String is :"+Long.parseLong(strNumber));
12
13
14 }
15 }
16

```

```

Console x
<terminated> Assignment2 [Java Application] D:\Eclipse\eclipse\plugins\org.eclipse
String is : 112233445566778899

```

f. Declare a method-local variable `strNumber` of type `String` with the value `"Ab12Cd3"` and attempt to convert it to a `long` value. (Hint: `parseLong` method will throw a `NumberFormatException`).

```

Assignment2.java x
5    public static void main(String[] args) {
6
7
8    String strNumber ="Ab12Cd3";
9    long number=739781346;
10   //int number2=20;
11   System.out.println("String is :"+Long.parseLong(strNumber));
12
13
14 }
15 }
16

```

```

Console x
<terminated> Assignment2 [Java Application] D:\Eclipse\eclipse\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32
Exception in thread "main" java.lang.NumberFormatException: For input string: "Ab12Cd3"
    at java.base/java.lang.NumberFormatException.forInputString(NumberFormatException.java:67)
    at java.base/java.lang.Long.parseLong(Long.java:709)
    at java.base/java.lang.Long.parseLong(Long.java:832)
    at in.Oopj.Assignment2.main(Assignment2.java:11)

```


ASSIGNMENT NO.2

g. Declare a method-local variable `number` of type `long` with some value and convert it to the corresponding wrapper class using `Long.valueOf()`. (Hint: Use `Long.valueOf(long)`).

```
Assignment2.java ×
1 package in.Oopj;
2 public class Assignment2 {
3     public static void main(String[] args) {
4         // String strNumber ="Ab12Cd3";
5         long number=739781346;
6         //int number2=20;
7         System.out.println("Wrapper Long is :"+Long.valueOf(number));
8     }
9 }
```

Console ×
 <terminated> Assignment2 [Java Application] D:\Eclipse\eclipse\plugins\org.eclipse
 Wrapper Long is :739781346

h. Declare a method-local variable `strNumber` of type `String` with some long value and convert it to the corresponding wrapper class using `Long.valueOf()`. (Hint: Use `Long.valueOf(String)`).

```
Assignment2.java ×
1 package in.Oopj;
2 public class Assignment2 {
3     public static void main(String[] args) {
4         String strNumber ="112233445566778899";
5         long number=739781346;
6         //int number2=20;
7         System.out.println("Wrapper Long is :"+Long.valueOf(strNumber));
8     }
9 }
```

Console ×
 <terminated> Assignment2 [Java Application] D:\Eclipse\eclipse\plugins\org.eclipse.justj
 Wrapper Long is :112233445566778899

i. Declare two long variables with values 1123 and 9845, and add them using a method from the `Long` class. (Hint: Use `Long.sum(long, long)`).

```
*Assignment2.java ×
1 package in.Oopj;
2 public class Assignment2 {
3     public static void main(String[] args) {
4         String strNumber ="112233445566778899";
5         long number1=1123;
6         long number2=9845;
7         //int number2=20;
8         System.out.println("Addition (Sum) Long is :"+Long.sum(number1, number2));
9     }
10 }
11 }
```

Console ×
 <terminated> Assignment2 [Java Application] D:\Eclipse\eclipse\plugins\org.eclipse.justj.openjdk.hc
 Wrapper Long is :10968

ASSIGNMENT NO.2

j. Declare two long variables with values 1122 and 5566, and find the minimum and maximum values using the Long class. (Hint: Use Long.min(long, long) and Long.max(long, long)).

```
Assignment2.java ×
public static void main(String[] args) {
    String strNumber = "112233445566778899";
    long number1=1122;
    long number2=5566;
    //int number2=20;
    System.out.println("Min Long is :"+Long.min(number1, number2));
    System.out.println("Max Long is :"+Long.max(number1, number2));
}
11 }
```

```
Console ×
<terminated> Assignment2 [Java Application] D:\Eclipse\eclipse\plugins\org.eclipse.j
Min Long is :1122
Max Long is :5566
```

k. Declare a long variable with the value 7. Convert it to binary, octal, and hexadecimal strings using methods from the Long class. (Hint: Use Long.toBinaryString(long), Long.toOctalString(long), and Long.toHexString(long)).

```
Assignment2.java ×
public static void main(String[] args) {
    String strNumber = "112233445566778899";
    long number1=1122;
    long number2=5566;
    //int number2=20;
    System.out.println("binary, octal, and hexadecimal Long is :"+Long.toBinaryString(number1)+" "+ Long.toOctalString(number1)+" "+ Long.toHexString(number1));
}
11 }
```

```
Console ×
<terminated> Assignment2 [Java Application] D:\Eclipse\eclipse\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_21.0.3.v20240426-1530\jre\bin\javaw.exe (06-Sept-2024, 12:20:44 pm - 12:2
binary, octal, and hexadecimal Long is :10001100010 2142 462
```

l. Experiment with converting a long value into other primitive types or vice versa and observe the results.

```
Assignment2.java ×
public static void main(String[] args) {
    String strNumber = "112233445566778899";
    long number1=1122;
    long number2=5566;
    int number3=20;
    System.out.println(" converting long to int :"+(int)number1);
    System.out.println(" converting int to long :"+(long)number3);
}
11 }
```

```
Console ×
<terminated> Assignment2 [Java Application] D:\Eclipse\eclipse\plugins\org.eclipse.j
converting long to int :1122
converting int to long :20
```

6. Working with `java.lang.Float`

- Explore the [Java API documentation for `java.lang.Float`](#) and observe its modifiers and super types.
- Write a program to test how many bytes are used to represent a `float` value using the `BYTES` field. (Hint: Use `Float.BYTES`).

```
Assignment2.java ×
3 public static void main(String[] args) {
4     String strNumber = "11.99";
5     float number1=11.22f;
6     float number2=55.66f;
7     int number3=20;
8     System.out.println(Float.BYTES);
9 // System.out.println(" converting folat to int :"+(int)number1);
10 // System.out.println(" converting int to float:"+ (float)number3);
11 }
```

```
Console ×
<terminated> Assignment2 [Java Application] D:\Eclipse\eclipse\plugins\org.eclipse.jus
4
```

- Write a program to find the minimum and maximum values of `float` using the `MIN_VALUE` and `MAX_VALUE` fields. (Hint: Use `Float.MIN_VALUE` and `Float.MAX_VALUE`).

```
3 public static void main(String[] args) {
4     String strNumber = "11.99";
5     float number1=11.22f;
6     float number2=55.66f;
7     int number3=20;
8     System.out.println(Float.MIN_VALUE+" to "+Float.MAX_VALUE);
9 // System.out.println(" converting folat to int :"+(int)number1);
10 // System.out.println(" converting int to float:"+ (float)number3);
11 }
```

```
Console ×
<terminated> Assignment2 [Java Application] D:\Eclipse\eclipse\plugins\org.eclipse.jus
1.4E-45 to 3.4028235E38
```

ASSIGNMENT NO.2

d. Declare a method-local variable `number` of type `float` with some value and convert it to a `String` using the `toString` method. (Hint: Use `Float.toString(float)`).

```
Assignment2.java ×
3 public static void main(String[] args) {
4     String strNumber = "11.99";
5     float number=11.22f;
6     float number2=55.66f;
7     int number3=20;
8     System.out.println("String: "+Float.toString(number));
9     // System.out.println(" converting float to int :"+(int)number1);
10    // System.out.println(" converting int to float:"+((float)number3));
11 }
12 }
13 }

Console ×
<terminated> Assignment2 [Java Application] D:\Eclipse\workspace\org.eclipse.justi.
String: 11.22
```

e. Declare a method-local variable `strNumber` of type `String` with some value and convert it to a `float` value using the `parseFloat` method. (Hint: Use `Float.parseFloat(String)`).

f. Declare a method-local variable `strNumber` of type `String` with the value "Ab12Cd3" and attempt to convert it to a `float` value. (Hint: `parseFloat` method will throw a `NumberFormatException`).

```
Assignment2.java ×
3 public static void main(String[] args) {
4     String strNumber = "11.99";
5     String strNumber1 = "Ab12Cd3";
6     float number1=11.22f;
7     float number2=55.66f;
8     int number3=20;
9     System.out.println("Float converted to float: "+Float.toString(number1));
10    System.out.println("String to float: "+Float.parseFloat(strNumber));
11    System.out.println("String to float: "+Float.parseFloat(strNumber1));
}
```

```
Exception in thread "main" java.lang.NumberFormatException: For input string: "Ab12Cd3"
    at java.base/jdk.internal.math.FloatingDecimal.readJavaFormatString(FloatingDe
    at java.base/jdk.internal.math.FloatingDecimal.parseFloat(FloatingDecimal.java
    at java.base/java.lang.Float.parseFloat(Float.java:556)
    at in.Oopj.Assignment2.main(Assignment2.java:11)
```

g. Declare a method-local variable `number` of type `float` with some value and convert it to the corresponding wrapper class using `Float.valueOf()`. (Hint: Use `Float.valueOf(float)`).

h. Declare a method-local variable `strNumber` of type `String` with some `float` value and convert it to the corresponding wrapper class using `Float.valueOf()`. (Hint: Use `Float.valueOf(String)`).

ASSIGNMENT NO.2

i. Declare two float variables with values 112.3 and 984.5, and add them using a method from the `Float` class. (Hint: Use `Float.sum(float, float)`).

j. Declare two float variables with values 112.2 and 556.6, and find the minimum and maximum values using the `Float` class. (Hint: Use `Float.min(float, float)` and `Float.max(float, float)`).

k. Declare a float variable with the value -25.0f. Find the square root of this value. (Hint: Use `Math.sqrt()` method).

l. Declare two float variables with the same value, 0.0f, and divide them. (Hint: Observe the result and any special floating-point behavior).

m. Experiment with converting a `float` value into other primitive types or vice versa and observe the results.

```
package in.Oopj;
```

```
public class Assignment2 {
```

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

```
        String strNumber ="11.99";
```

```
        String strNumber1 ="Ab12Cd3";
```

```
        float number1=112.3f;
```

```
        float number2=984.5f;
```

```
        float number4=-25.0f;
```

```
        float number6=0.0f;
```

```
        float number7=0.0f;
```

```
        int number3=20;
```

```
        System.out.println("Float converted to float:"+Float.toString(number1));
```

```
        System.out.println("String to float:"+Float.parseFloat(strNumber));
```

```
        //System.out.println("String to float:      "+Float.parseFloat(strNumber1));
```

```
        System.out.println("float to wrapper class: "+Float.valueOf(number1));
```

```
        System.out.println("float to wrapper class:
        "+Float.valueOf(strNumber));

        System.out.println("sum of floats   :   "+Float.sum(number1,
        number2));

        System.out.println("Minimum of floats:  "+Float.min(number1,
        number2));

        System.out.println("Maximum of floats:  "+Float.max(number1,
        number2));

        System.out.println("Square root of float:"+Math.sqrt(number4));

        System.out.println("Float divide by float:"+(number6/number7));

        System.out.println("converting folat to int :"+(int)number1);

        System.out.println("converting int to float:"+float(number3);

    }

}
```

```

Assignment2.java x  *CompoundIntrest.java
1 package in.Oopj;
2 public class Assignment2 {
3     public static void main(String[] args) {
4         String strNumber = "11.99";
5         String strNumber1 = "Ab12Cd3";
6         float number1=112.3f;
7         float number2=984.5f;
8         float number4=-25.0f;
9         float number6=0.0f;
10        float number7=0.0f;
11        int number3=20;
12        System.out.println("Float converted to float:"+Float.toString(number1));
13        System.out.println("String to float: "+Float.parseFloat(strNumber));
14        //System.out.println("String to float: "+Float.parseFloat(strNumber1));
15        System.out.println("float to wrapper class: "+Float.valueOf(number1));
16        System.out.println("float to wrapper class: "+Float.valueOf(strNumber));
17        System.out.println("sum of floats : "+Float.sum(number1, number2));
18        System.out.println("Minimum of floats: "+Float.min(number1, number2));
19        System.out.println("Maximum of floats: "+Float.max(number1, number2));
20        System.out.println("Square root of float:"+Math.sqrt(number4));
21        System.out.println("Float divide by float:"+ (number6/number7));
22        System.out.println("converting folat to int :"+(int)number1);
23        System.out.println("converting int to float:"+ (float)number3);
24    }
25 }

```

Console x

```

<terminated> Assignment2 [Java Application] D:\Eclipse\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre
Float converted to float:112.3
String to float: 11.99
float to wrapper class: 112.3
float to wrapper class: 11.99
sum of floats : 1096.8
Minimum of floats: 112.3
Maximum of floats: 984.5
Square root of float:NaN
Float divide by float:NaN
converting folat to int :112
converting int to float:20.0

```

7. Working with java.lang.Double

- Explore the [Java API documentation for java.lang.Double](#) and observe its modifiers and super types.
- Write a program to test how many bytes are used to represent a double value using the `BYTES` field. (Hint: Use `Double.BYTES`).
- Write a program to find the minimum and maximum values of double using the `MIN_VALUE` and `MAX_VALUE` fields. (Hint: Use `Double.MIN_VALUE` and `Double.MAX_VALUE`).

d. Declare a method-local variable `number` of type `double` with some value and convert it to a `String` using the `toString` method. (Hint: Use `Double.toString(double)`).

e. Declare a method-local variable `strNumber` of type `String` with some value and convert it to a `double` value using the `parseDouble` method. (Hint: Use `Double.parseDouble(String)`).

f. Declare a method-local variable `strNumber` of type `String` with the value "Ab12Cd3" and attempt to convert it to a `double` value. (Hint: `parseDouble` method will throw a `NumberFormatException`).

```
Exception in thread "main" java.lang.NumberFormatException: For input string: "Ab12Cd3"
    at java.base/jdk.internal.math.FloatingDecimal.readJavaFormatString(FloatingDe
    at java.base/jdk.internal.math.FloatingDecimal.parseDouble(FloatingDecimal.jav
    at java.base/java.lang.Double.parseDouble(Double.java:792)
    at in.Oopj.Assignment2.main(Assignment2.java:16)
```

g. Declare a method-local variable `number` of type `double` with some value and convert it to the corresponding wrapper class using `Double.valueOf()`. (Hint: Use `Double.valueOf(double)`).

h. Declare a method-local variable `strNumber` of type `String` with some `double` value and convert it to the corresponding wrapper class using `Double.valueOf()`. (Hint: Use `Double.valueOf(String)`).

i. Declare two `double` variables with values 112.3 and 984.5, and add them using a method from the `Double` class. (Hint: Use `Double.sum(double, double)`).

j. Declare two `double` variables with values 112.2 and 556.6, and find the minimum and maximum values using the `Double` class. (Hint: Use `Double.min(double, double)` and `Double.max(double, double)`).

k. Declare a `double` variable with the value -25.0. Find the square root of this value. (Hint: Use `Math.sqrt()` method).

l. Declare two `double` variables with the same value, 0.0, and divide them. (Hint: Observe the result and any special floating-point behavior).

m. Experiment with converting a `double` value into other primitive types or vice versa and observe the results.

```
package Shape;import java.util.Scanner;
```

```
public class Area {
```

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



```
int x;do {  
  
System.out.println("1.Circle \n2.Square \n3.Rectangle \n4.Triangle");  
  
System.out.println("Enter your Choise(1-4): ");  
  
Scanner sc =new Scanner (System.in);  
  
int ch=sc.nextInt();  
  
switch (ch) {  
  
case 1: {  
  
float A=0;  
  
float pi=3.14f;  
  
System.out.println("Enter redius of Circle: ");  
  
float r=sc.nextFloat();  
  
A=pi*r*r;  
  
System.out.println("Area of circle is: "+A);  
  
}break;  
  
case 2: {  
  
float A=0;  
  
System.out.println("Enter Side of Square: ");  
  
float s=sc.nextFloat();  
  
A=s*s;  
  
System.out.println("Area of Square: "+A);  
  
}break;  
  
case 3:{  
  
float A=0;  
  
System.out.println("Enter Breadth of rectangle: ");
```

```
float b=sc.nextFloat();

System.out.println("Enter Length of rectangle: ");

float l=sc.nextFloat();

A=l*b;

System.out.println("Area of Rectangle: "+A);

}break;case 4: {

float A=0;

System.out.println("Enter Base of Triangle: ");

float b=sc.nextFloat();

System.out.println("Enter Height of Triangle: ");

float h=sc.nextFloat();

A=1/2f*(b*h);

System.out.println("Area of Triangle: "+A);

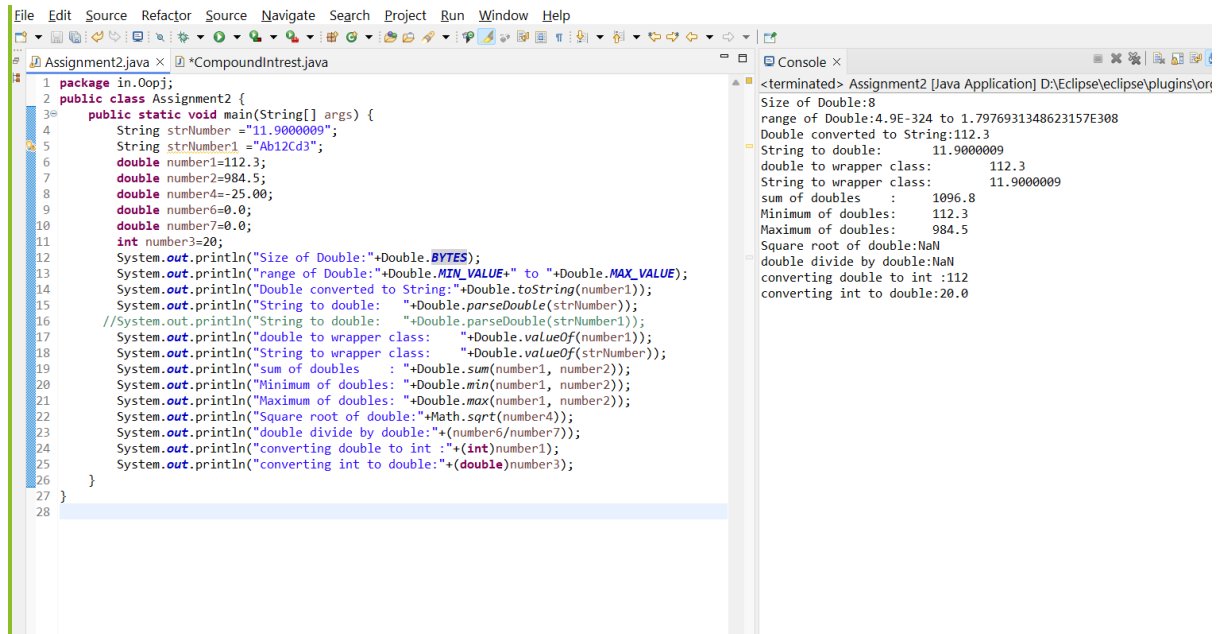
}}System.out.println("Do you want to continue \n1.Yes\n2.No");

x=sc.nextInt();

}while (x==1);}

}
```

ASSIGNMENT NO.2



```
File Edit Source Refactor Source Navigate Search Project Run Window Help
Assignment2.java x *CompoundIntrest.java
1 package in.Oopj;
2 public class Assignment2 {
3     public static void main(String[] args) {
4         String strNumber = "11.9000009";
5         String strNumber1 = "Ab12Cd3";
6         double number1=112.3;
7         double number2=984.5;
8         double number4=-25.00;
9         double number6=0.0;
10        double number7=0.0;
11        int number3=20;
12        System.out.println("Size of Double:"+Double.BYTES);
13        System.out.println("range of Double:"+Double.MIN_VALUE+" to "+Double.MAX_VALUE);
14        System.out.println("Double converted to String:"+Double.toString(number1));
15        System.out.println("String to double: "+Double.parseDouble(strNumber));
16        //System.out.println("String to double: "+Double.parseDouble(strNumber1));
17        System.out.println("double to wrapper class: "+Double.valueOf(number1));
18        System.out.println("String to wrapper class: "+Double.valueOf(strNumber));
19        System.out.println("sum of doubles : "+Double.sum(number1, number2));
20        System.out.println("Minimum of doubles: "+Double.min(number1, number2));
21        System.out.println("Maximum of doubles: "+Double.max(number1, number2));
22        System.out.println("Square root of double:"+Math.sqrt(number4));
23        System.out.println("double divide by double:"+ (number6/number7));
24        System.out.println("converting double to int :"+(int)number1);
25        System.out.println("converting int to double:"+ (double)number3);
26    }
27 }
28

<terminated> Assignment2 [Java Application] D:\Eclipse\workspace\plugins\or
Size of Double:8
range of Double:4.9E-324 to 1.7976931348623157E308
Double converted to String:112.3
String to double: 11.9000009
double to wrapper class: 112.3
String to wrapper class: 11.9000009
sum of doubles : 1096.8
Minimum of doubles: 112.3
Maximum of doubles: 984.5
Square root of double:NaN
double divide by double:NaN
converting double to int :112
converting int to double:20.0
```

8. Conversion between Primitive Types and Strings

Initialize a variable of each primitive type with a user-defined value and convert it into String:

- First, use the `toString` method of the corresponding wrapper class. (e.g., `Integer.toString()`).
- Then, use the `valueOf` method of the `String` class. (e.g., `String.valueOf()`).

```
package in.Oopj;

public class Q8 {

    public static void main(String[] args) {

        boolean b=true;
        byte B=1;
        char C='x';
        short s=23;
        int i=10;
        float f=10.5f;
        long l=1223444666;
        double d=12.3200;
        System.out.println("Boolean : "+Boolean.toString(b));
        System.out.println("Byte : "+Byte.toString(B));
        System.out.println("char : "+Character.toString(C));
        System.out.println("Integer : "+Integer.toString(i));
        System.out.println("Float : "+Float.toString(f));
        System.out.println("Long : "+Long.toString(l));
        System.out.println("Double : "+Double.toString(d));
        System.out.println("Short : "+Short.toString(s));
        System.out.println("Boolean"+String.valueOf(b));
```

ASSIGNMENT NO.2

```

        System.out.println("byte"+String.valueOf(B));
        System.out.println("character "+String.valueOf(C));
        System.out.println("Short"+String.valueOf(s));
        System.out.println("Integer"+String.valueOf(i));
        System.out.println("Float"+String.valueOf(f));
        System.out.println("Long"+String.valueOf(l));
        System.out.println("Double"+String.valueOf(d));
    }
}

```

```

1 package in.Oopj;
2
3 public class Q8 {
4
5     public static void main(String[] args) {
6
7         boolean b=true;
8         byte B=1;
9         char C='x';
10        short s=23;
11        int i=10;
12        float f=10.5f;
13        long l=1223444666;
14        double d=12.3200;
15        System.out.println("Boolean : "+Boolean.toString(b));
16        System.out.println("Byte : "+Byte.toString(B));
17        System.out.println("char : "+Character.toString(C));
18        System.out.println("Integer : "+Integer.toString(i));
19        System.out.println("Float : "+Float.toString(f));
20        System.out.println("Long : "+Long.toString(l));
21        System.out.println("Double : "+Double.toString(d));
22        System.out.println("Short : "+Short.toString(s));
23        System.out.println("Boolean"+String.valueOf(b));
24        System.out.println("byte"+String.valueOf(B));
25        System.out.println("character "+String.valueOf(C));
26        System.out.println("Short"+String.valueOf(s));
27        System.out.println("Integer"+String.valueOf(i));
28        System.out.println("Float"+String.valueOf(f));
29        System.out.println("Long"+String.valueOf(l));
30        System.out.println("Double"+String.valueOf(d));
31    }
32 }
33
34 }
35

```

```

<terminated> Q8 [Java Application] D:\Eclipse\ eclipse\plugins\org.eclipse.justj
Boolean : true
Byte : 1
char : x
Integer : 10
Float : 10.5
Long : 1223444666
Double : 12.32
Short : 23
Booleantrue
byte1
character x
Short23
Integer10
Float10.5
Long1223444666
Double12.32

```

9. Default Values of Primitive Types

Declare variables of each primitive type as fields of a class and check their default values. (Note: Default values depend on whether the variables are instance variables or static variables).

```
package in.Oopj
```

```
class que9{
```

```
    static boolean b;
```

```
    static byte B;
```

```
    static char C;
```

```
    static short s;
```

```
    static int i;
```

```
    static float f;
```

```
    static long l;
```

```
    static double d;
```

```
}
```

```
public class Q9 {
```

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

```
        que9 A = new que9();
```

```
        System.out.println("Boolean: " + (A.b));
```

```
        System.out.println("byte: " + (A.B));
```

```
        System.out.println("character: " + (A.C));
```

```
        System.out.println("Short: " + (A.s));
```

```
        System.out.println("Integer: " + (A.i));
```

```
        System.out.println("Float: " + (A.f));
```

System.out.println("Long: "+(A.l));

System.out.println("Double: "+(A.d));

}

}

```

1 package in.0opj;
2
3 class que9{
4     static boolean b;
5     static byte B;
6     static char C;
7     static short s;
8     static int i;
9     static float f;
10    static long l;
11    static double d;
12 }
13 public class Q9 {
14
15    public static void main(String[] args) {
16        que9 A =new que9();
17        System.out.println("Boolean: "+(A.b));
18        System.out.println("byte: "+(A.B));
19        System.out.println("character: "+(A.C));
20        System.out.println("Short: "+(A.s));
21        System.out.println("Integer: "+(A.i));
22        System.out.println("Float: "+(A.f));
23        System.out.println("Long: "+(A.l));
24        System.out.println("Double: "+(A.d));
25    }
26 }

```

Console ×

<terminated> Q9 [Java Application] D:\Eclipse\eclipse\plugins\org.ecl

Boolean: false

byte: 0

character:

Short: 0

Integer: 0

Float: 0.0

Long: 0

Double: 0.0

10. Arithmetic Operations with Command Line Input

Write a program that accepts two integers and an arithmetic operator (+, -, *, /) from the command line. Perform the specified arithmetic operation based on the operator provided. (Hint: Use `switch-case` for operations).

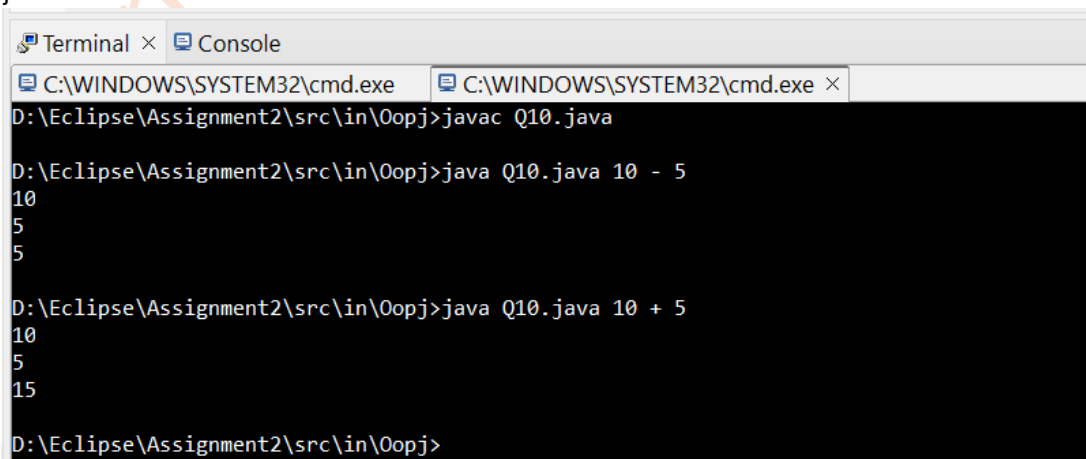
package in.Oopj;

```
public class Q10 {
    public static void main(String[] args) {
        int num1 = Integer.parseInt(args[0]);
        System.out.println(num1);
        String opr = args[1];
        int num2 = Integer.parseInt(args[2]);
        System.out.println(num2);

        switch (opr) {
            case "+":
                System.out.println(num1+num2);

                break;
            case "-":
                System.out.println(num1-num2);
                break;

            case "*":
                System.out.println(num1*num2);
                break;
            case "/":
                System.out.println(num1/num2);
                default:
                    break;
        }
    }
}
```



```
Terminal x Console
C:\WINDOWS\SYSTEM32\cmd.exe C:\WINDOWS\SYSTEM32\cmd.exe x
D:\Eclipse\Assignment2\src\in\Oopj>javac Q10.java

D:\Eclipse\Assignment2\src\in\Oopj>java Q10.java 10 - 5
10
5
5

D:\Eclipse\Assignment2\src\in\Oopj>java Q10.java 10 + 5
10
5
15

D:\Eclipse\Assignment2\src\in\Oopj>
```