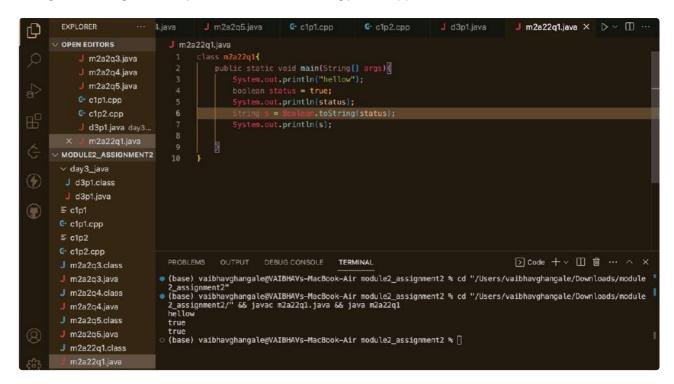
module 2 assignment 2.2 sandeep sir's assig2

- 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)).



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)).

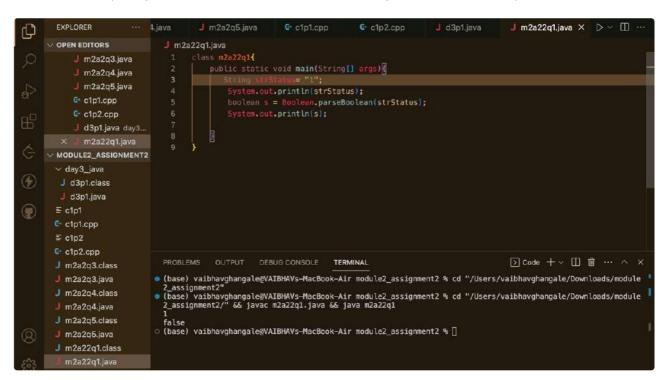
```
EXPLORER
                              4. java
                                          J m2a2d5 java
                                                              G c1p1.cpp
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                                                                                                                    J m2a22q1.java × ▷ ✓ 🏻
凸
                                 J m2a22q1.java
     V OPEN EDITORS
            J m2a2q3.java
           J m2a2q4.java
           J m2a2q5.java
           € c1p1.cpp
           € c1p2.cpp
           🔳 d3p1.java day3..

✓ MODULE2_ASSIGNMENT2

√ day3_java

        J d3p1.class
          d3p1.java
       C c1p1.cpp
       ≡ c1p2
      C c1p2.cpp
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                                PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
       J m2a2g3.class
                               ■ (base) vaibhavghangale@VAIBHAVs-MacBook-Air module2_assignment2 % cd "/Users/vaibhavghangale/Downloads/module
       J m2a2q4.class
                               • (base) vaibhavghangale@VAIBHAVs-MacBook-Air module2_assignment2 % cd "/Users/vaibhavghangale/Downloads/module
2_assignment2/" && javac m2a22q1.java && java m2a22q1
true
       J m2a2q4.iava
       J m2a2q5.class
                               ○ (base) vaibhavghangale@VAIBHAVs-MacBook-Air module2_assignment2 % []
       J m2a2q5.java
       J m2a22g1.class
```

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").



for both 1 and 0, false is o/p

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)).



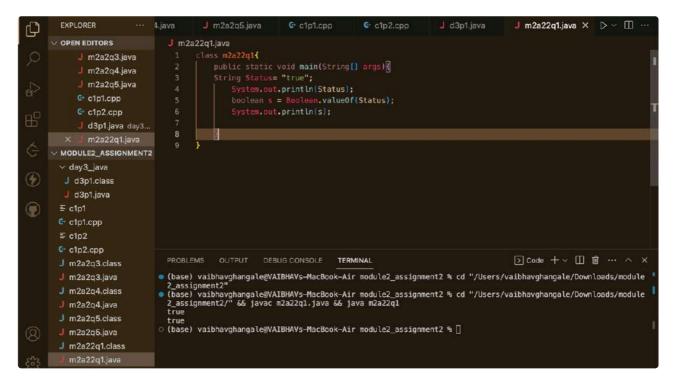
```
EXPLORER
                                   J m2a2d5 java
                                                        G c1p1.cpp
                                                                          € c1p2.cpp
                                                                                            J d3p1.java
                                                                                                              J m2a22q1.java × ▷ ✓ 🏻
                          J m2a22q1.java
 OPEN EDITORS
      J m2a2q3.java
     J m2a2q4.java
      J m2a2q5.java
                                                m.out.println(Status);
                                          boolean s = Boolean.va
System.out.println(s);
     € c1p1.cpp
     € c1p2.cpp
     🔳 d3p1.java day3..

✓ MODULE2_ASSIGNMENT2

√ day3_java

  J d3p1.class
    d3p1.java
 C c1p1.cpp
 ≡ c1p2
C c1p2.cpp
                          PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
                                                                                                              J m2a2g3.class
                         🏮 (base) vaibhavghangale@VAIBHAVs—MacBook—Air module2_assignment2 % cd "/Users/vaibhavghangale/Downloads/module
                         • (base) vaibhavghangale@VAIBHAVs-MacBook-Air module2_assignment2 % cd "/Users/vaibhavghangale/Downloads/module
2_assignment2/" && javac m2a22q1.java && java m2a22q1
true
 J m2a2q4.class
 J m2a2q4.java
 J m2a2q5.class
                         ○ (base) vaibhavghangale@VAIBHAVs-MacBook-Air module2_assignment2 % []
 J m2a2q5.java
 J m2a22g1.class
```

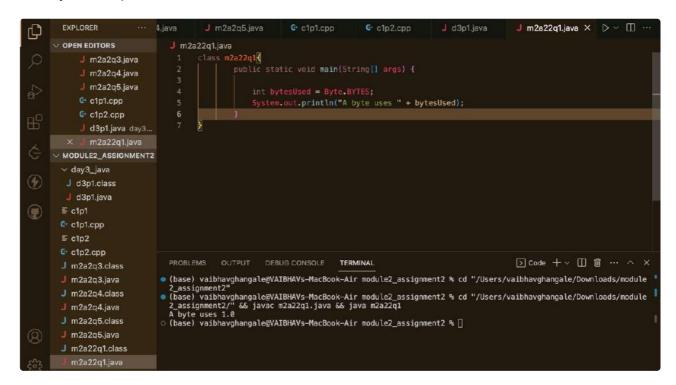
f. Declare a method-local variable strStatus of type String with the value "true" and convert it to the corresponding wrapper class using Boolean.valueOf(). (Hint: Use Boolean.valueOf(String)).



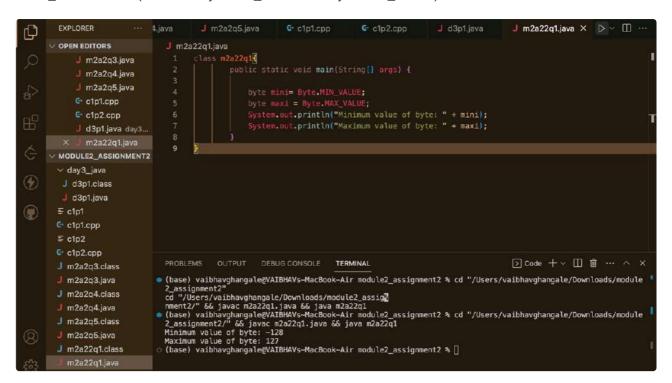
- 2. Working with java.lang.Byte
- a. Explore the Java API documentation for java.lang.Byte and observe its modifiers and super types.



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

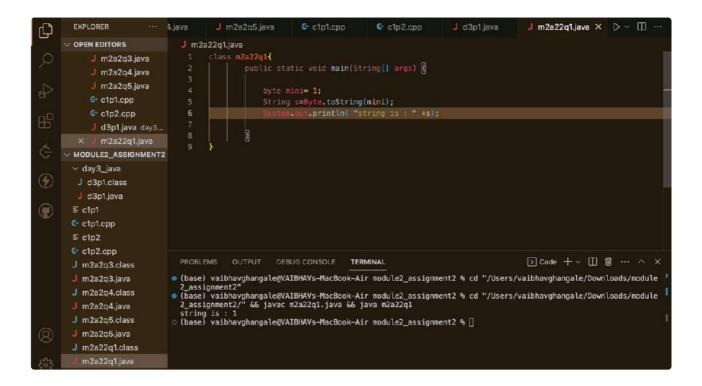


c. Write a program to find the minimum and maximum values of byte using the MIN_VALUE and MAX_VALUE fields. (Hint: Use Byte.MIN_VALUE and Byte.MAX_VALUE).

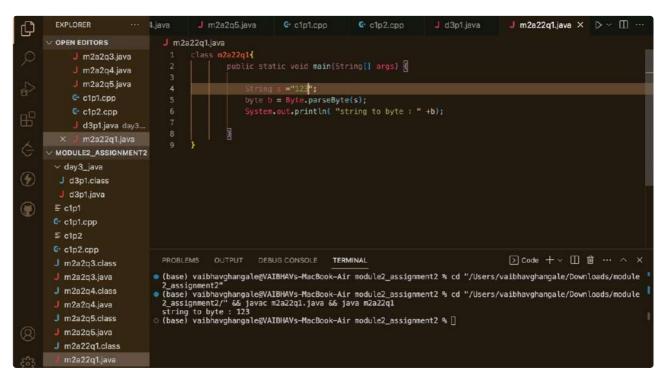


d. Declare a method-local variable number of type byte with some value and convert it to a String using the toString method. (Hint: Use Byte.toString(byte)).





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)).



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).

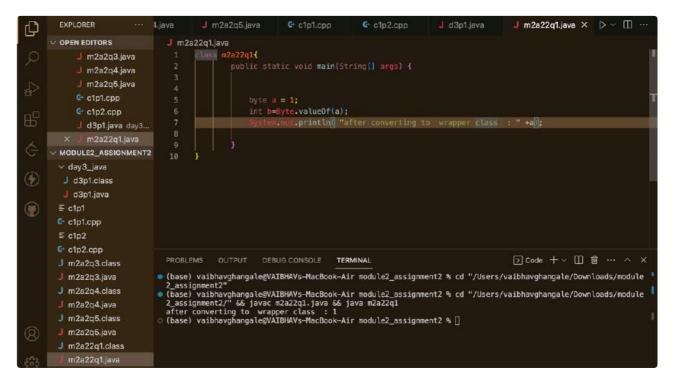
```
EXPLORER
                                                 4. java
                                                                    J m2a2q5.java
                                                                                                     G c1p1.cpp
                                                                                                                                  € c1p2.cpp
                                                                                                                                                               J d3p1.java
                                                                                                                                                                                            J m2a22q1.java × ▷ ✓ 🏻
P
                                                     J m2a22q1.java
            OPEN EDITORS
                   J m2a2q3.java
                                                                               public static void main(String[] args) €
                   J m2a2q4.java
                   J m2a2q5.java
                  G c1p1.cpp
                                                                                      byte b = Byte.parseByte(s);
System.out.println( "string to byte : " +b);
                  € c1p2.cpp
                   J d3p1.java day3..

✓ MODULE2_ASSIGNMENT2

√ day3_java

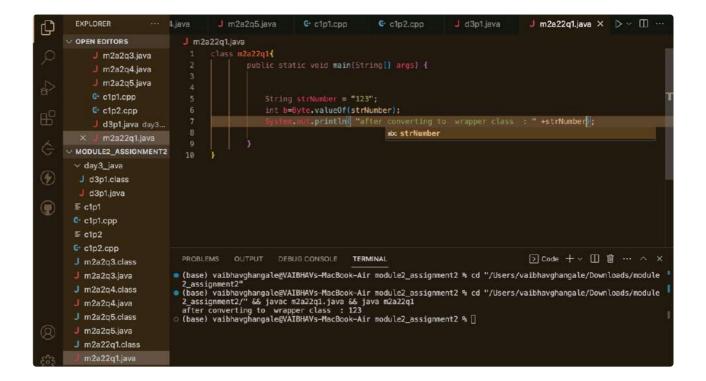
             J d3p1.class
                 d3p1.java
            c1p1.cpp
            ≡ c1p2
           @ c1p2.cpp
                                                                                                                                                                                            ∑ Code + ∨ □ ii ··· ∧ ×
                                                     PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
            J m2a2g3.class
                                                  🏮 (base) vaibhavghangale@VAIBHAVs—MacBook—Air module2_assignment2 % cd "/Users/vaibhavghangale/Downloads/module
             J m2a2q3.java
                                                     2_assignment2"
cd "/Users/vaibhavghangale/Downloads/module2_assignment2/" && javac m2a22q1.java && java m2a22q1
) (base) vaibhavghangale@VAIBHAVs-MacBook-Air module2_assignment2 % cd "/Users/vaibhavghangale/Downloads/module
2_assignment2/" && javac m2a22q1.java && java m2a22q1
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.Byte.parseByte(Byte.java:195)
at java.base/java.lang.Byte.parseByte(Byte.java:221)
at m2a22q1.main(m2a22q1.java:5)
            J m2a2q4.class
            J m2a2q4.iava
            J m2a2q5.class
            J m2a2q5.java
            J m2a22g1.class
```

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)).

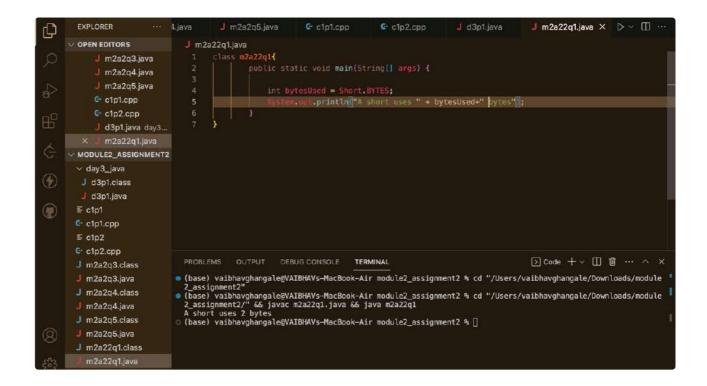


h. Declare a method-local variable strNumber of type String with some byte value and convert it to the corresponding wrapper class using Byte.valueOf(). (Hint: Use Byte.valueOf(String)).

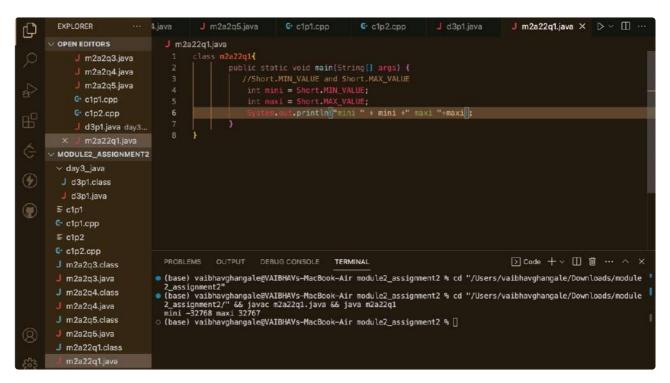




- 3. Working with java.lang.Short
- a. Explore the Java API documentation for java.lang.Short and observe its modifiers and super types.
- b. Write a program to test how many bytes are used to represent a short value using the BYTES field. (Hint: Use Short.BYTES).

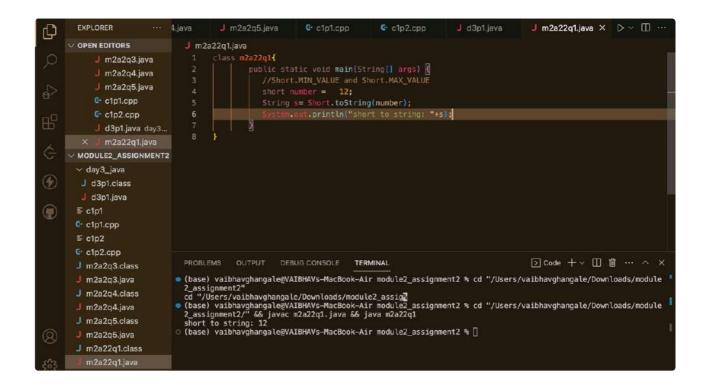


c. Write a program to find the minimum and maximum values of short using the MIN_VALUE and MAX_VALUE fields. (Hint: Use Short.MIN_VALUE and Short.MAX_VALUE).

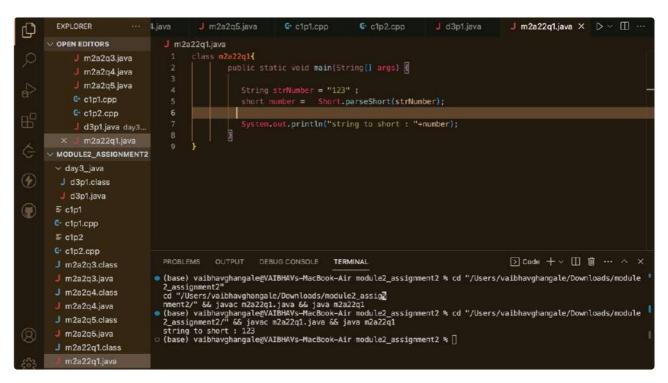


d. Declare a method-local variable number of type short with some value and convert it to a String using the toString method. (Hint: Use Short.toString(short)).



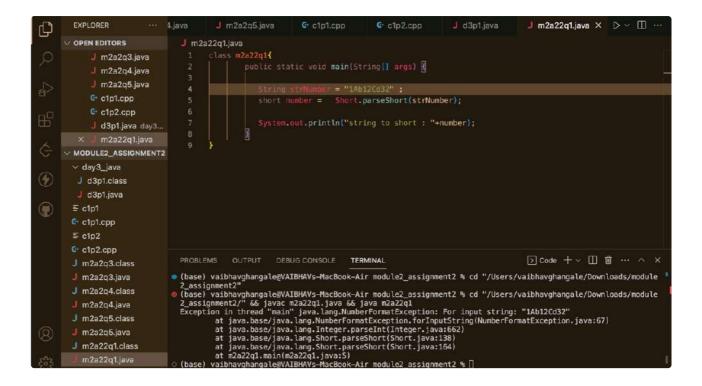


e. Declare a method-local variable strNumber of type String with some value and convert it to a short value using the parseShort method. (Hint: Use Short.parseShort(String)).

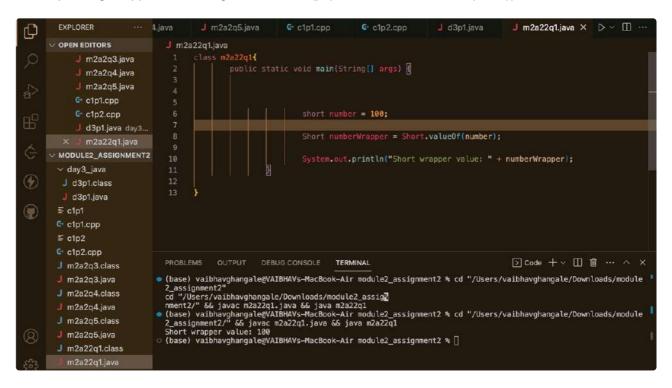


f. Declare a method-local variable strNumber of type String with the value "Ab12Cd3" and attempt to convert it to a short value. (Hint: parseShort method will throw a NumberFormatException).

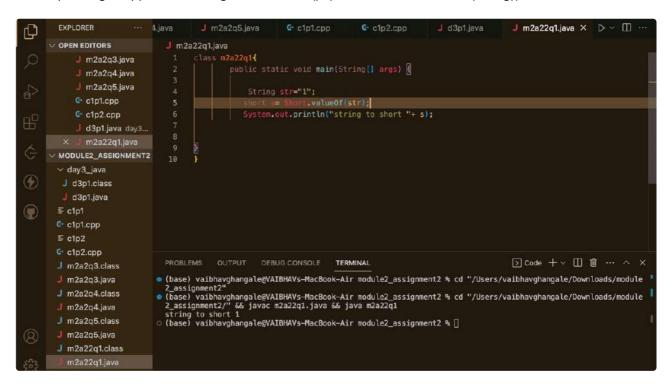




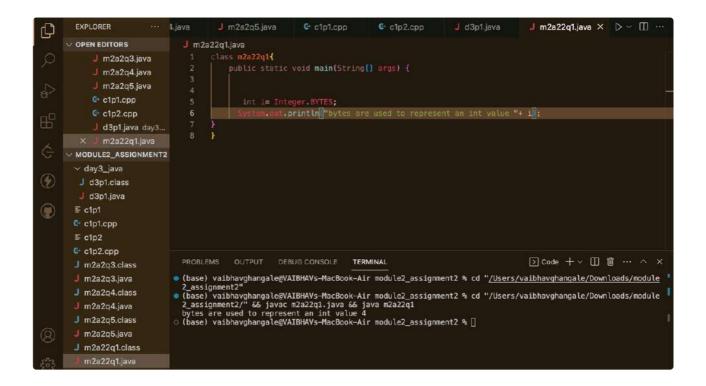
g. Declare a method-local variable number of type short with some value and convert it to the corresponding wrapper class using Short.valueOf(). (Hint: Use Short.valueOf(short)).



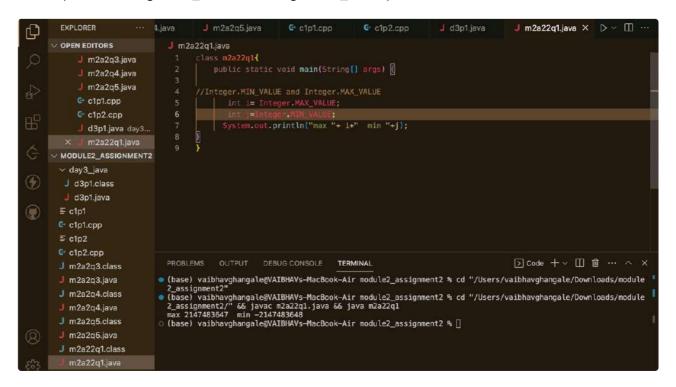
h. Declare a method-local variable strNumber of type String with some short value and convert it to the corresponding wrapper class using Short.valueOf(). (Hint: Use Short.valueOf(String)).



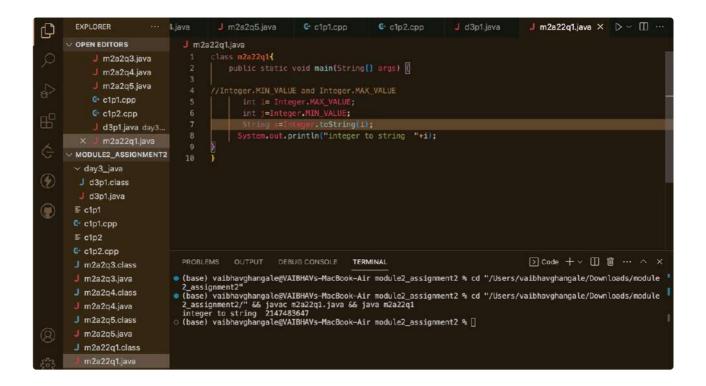
- 4. Working with java.lang.Integer
- a. Explore the Java API documentation for java.lang.Integer and observe its modifiers and super types.
- b. Write a program to test how many bytes are used to represent an int value using the BYTES field. (Hint: Use Integer.BYTES).



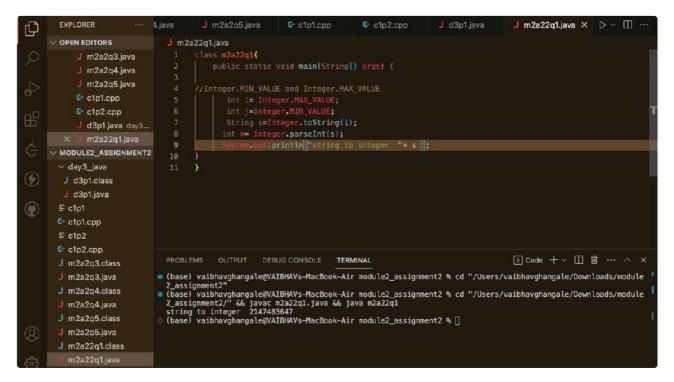
c. Write a program to find the minimum and maximum values of int using the MIN_VALUE and MAX_VALUE fields. (Hint: Use Integer.MIN_VALUE and Integer.MAX_VALUE).



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)).



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)).



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).

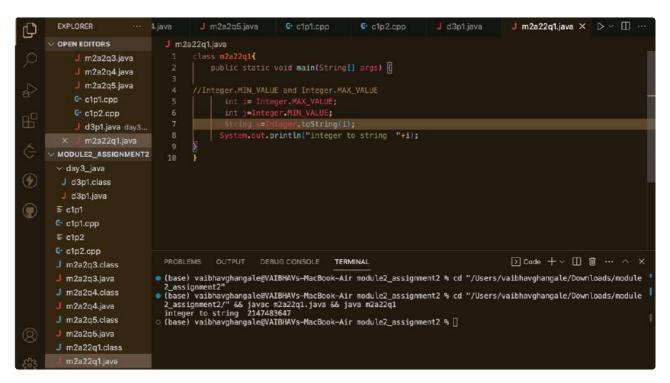
```
EXPLORER
                                                       J m2a2d5 lava
                                                                                       G c1p1.cpp
                                                                                                                   € c1p2.cpp
                                                                                                                                               J d3p1.java
                                                                                                                                                                           J m2a22q1.java × ▷ ✓ 🏻 -
                                         J m2a22q1.java
  OPEN EDITORS
         J m2a2q3.java
         J m2a2q4.java
         J m2a2q5.java
                                                      //Integer.MIN_VALUE and Integer.MAX_VALUE
        € c1p1.cpp
        € c1p2.cpp
        J d3p1.java day3...

✓ MODULE2_ASSIGNMENT2

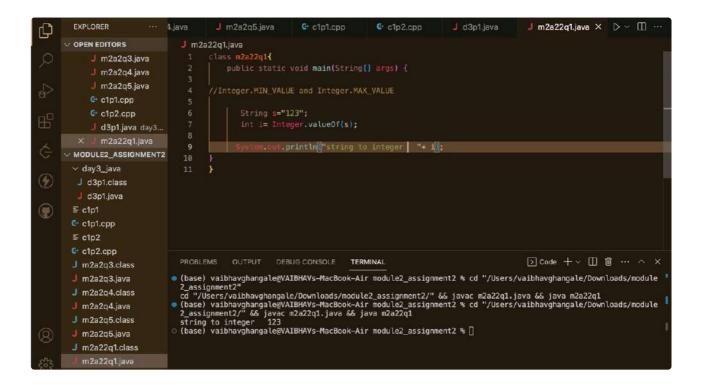
√ day3_java

   J d3p1.class
       d3p1.java
 c1p1.cpp
 ≡ c1p2
 @ c1p2.cpp
                                                                                                                                                                          ∑ Code + ∨ □ ii ··· ∧ ×
                                         PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
 J m2a2g3.class
                                      🏮 (base) vaibhavghangale@VAIBHAVs—MacBook—Air module2_assignment2 % cd "/Users/vaibhavghangale/Downloads/module
   J m2a2q3.java
                                      Z_assignment2"
o (base) vaibhavghangale@VAIBHAVs-MacBook-Air module2_assignment2 % cd "/Users/vaibhavghangale/Downloads/module
2_assignment2/" && javac m2a22q1.java && java m2a22q1
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 m2a22q1.main(m2a22q1.java:7)
o (base) vaibhavghangale@VAIBHAVs-MacBook-Air module2_assignment2 % []
  J m2a2q4.class
  J m2a2q4.iava
  J m2a2q5.class
  J m2a2q5.java
  J m2a22g1.class
```

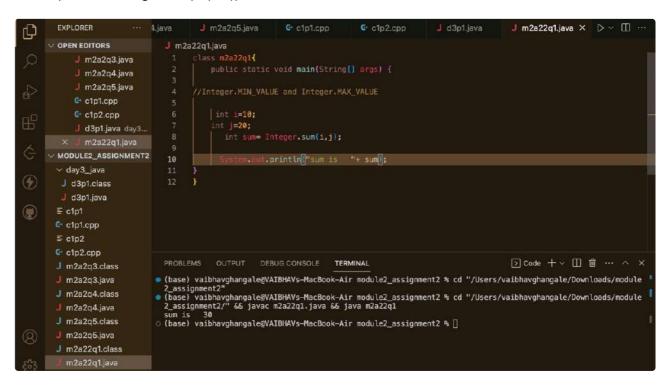
g. Declare a method-local variable number of type int with some value and convert it to the corresponding wrapper class using Integer.valueOf(). (Hint: Use Integer.valueOf(int)). copyed file



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)).



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)).



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)).

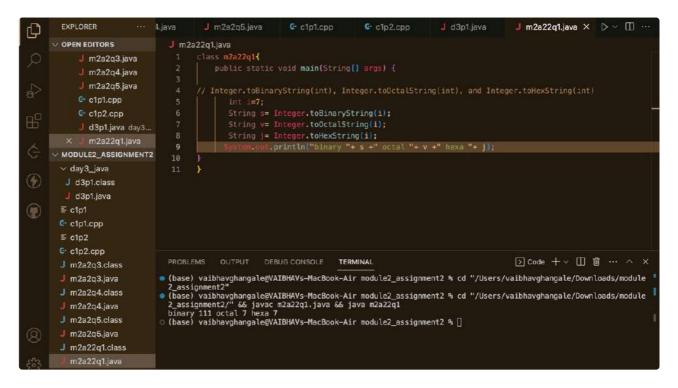
```
EXPLORER
                                    J m2a2d5 lava
                                                        G c1p1.cpp
                                                                           € c1p2.cpp
                                                                                             J d3p1.java
                                                                                                               J m2a22q1.java × ▷ ∽ 🏻 ···
                           J m2a22q1.java
 OPEN EDITORS
      J m2a2q3.java
      J m2a2q4.java
      J m2a2q5.java
     € c1p1.cpp
     € c1p2.cpp
                                       int j=20;
                                        int s= Integer.min(i,j);
int v= Integer.max(i,j);
      J d3p1.java day3...

✓ MODULE2_ASSIGNMENT2

√ day3_java

  J d3p1.class
    d3p1.java
 C c1p1.cpp
 ≡ c1p2
 @ c1p2.cpp
                          PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
                                                                                                               J m2a2g3.class
                         🌞 (base) vaibhavghangale@VAIBHAVs—MacBook—Air module2_assignment2 % cd "/Users/vaibhavghangale/Downloads/module
 J m2a2q4.class
                         • (base) vaibhavghangale@VAIBHAVs-MacBook-Air module2_assignment2 % cd "/Users/vaibhavghangale/Downloads/module
2_assignment2/" && javac m2a22q1.java && java m2a22q1
max 20 min 10
 J m2a2q4.iava
                         o (base) vaibhavghangale@VAIBHAVs-MacBook-Air module2_assignment2 % _
 J m2a2q5.java
 J m2a22g1.class
```

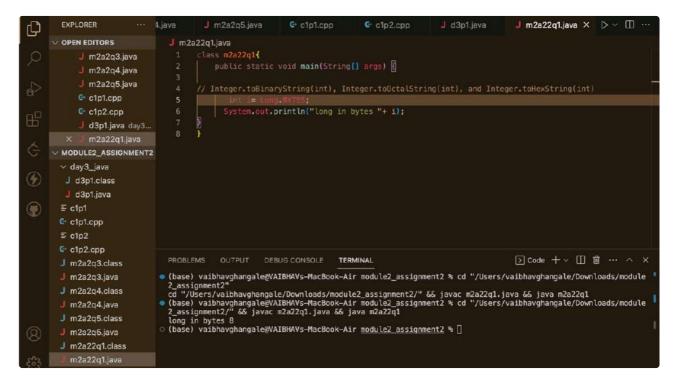
k. Declare an integer variable with the value 7. Convert it to binary, octal, and hexadecimal strings using methods from the Integer class. (Hint: Use Integer.toBinaryString(int), Integer.toOctalString(int), and Integer.toHexString(int)).



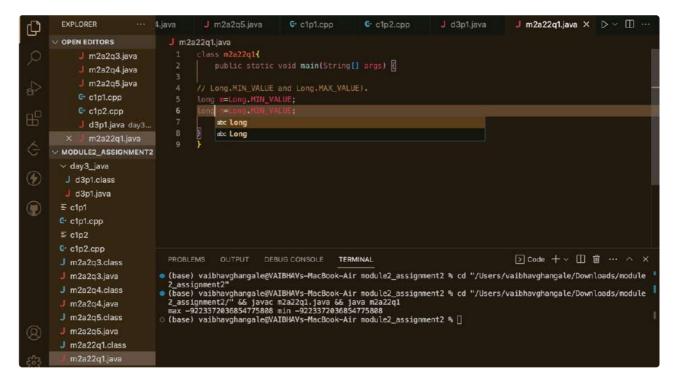
5. Working with java.lang.Long



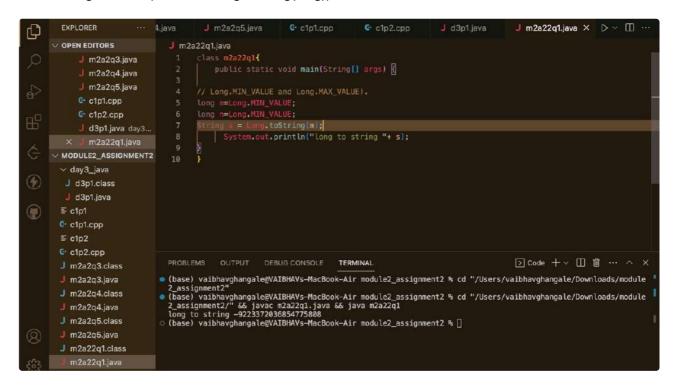
- a. Explore the Java API documentation for java.lang.Long and observe its modifiers and super types.
- b. Write a program to test how many bytes are used to represent a long value using the BYTES field. (Hint: Use Long.BYTES).



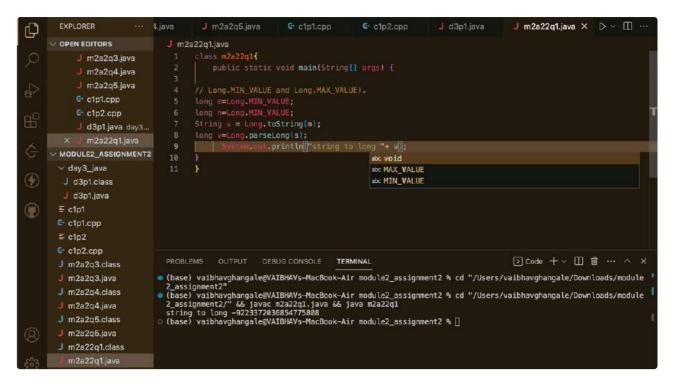
c. Write a program to find the minimum and maximum values of long using the MIN_VALUE and MAX_VALUE fields. (Hint: Use Long.MIN_VALUE and Long.MAX_VALUE).



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)).



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)).



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).



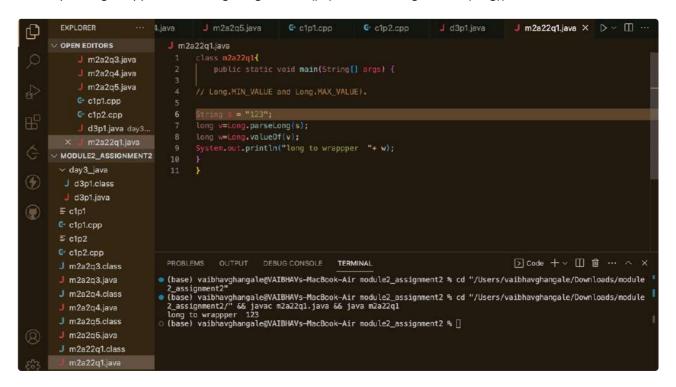
```
EXPLORER
                                                           J m2a2o5 java
                                                                                        G c1p1.cpp
                                                                                                                 € c1p2.cpp
                                                                                                                                           J d3p1.java
                                                                                                                                                                    J m2a22q1.java × ▷ ✓ 🏻
凸
                                              J m2a22q1.java
        V OPEN EDITORS
                J m2a2q3.java
                                                            public static void main(String[] args) [
                J m2a2q4.java
                J m2a2q5.java
                                                         // Long.MIN VALUE and Long.MAX VALUE).
                G c1p1.cpp
                                                        € c1p2.cpp
                J d3p1.java day3...

✓ MODULE2_ASSIGNMENT2

√ day3_java

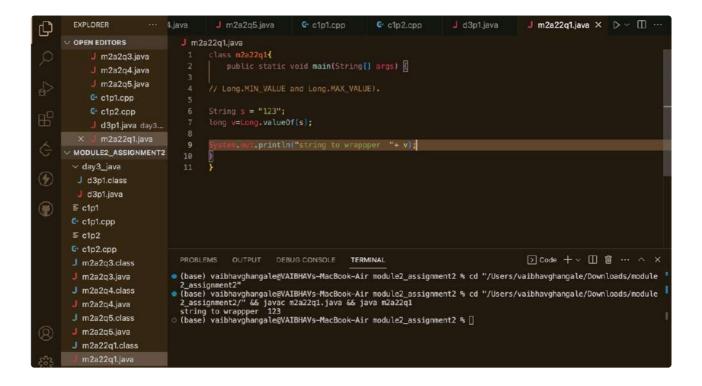
            J d3p1.class
               d3p1.java
          C c1p1.cpp
          ≡ c1p2
          @ c1p2.cpp
                                                                                                                                                                   ∑ Code + ∨ □ ii ··· ∧ ×
                                             PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
          J m2a2g3.class
                                            🏮 (base) vaibhavghangale@VAIBHAVs—MacBook—Air module2_assignment2 % cd "/Users/vaibhavghangale/Downloads/module
           J m2a2q3.java
                                           Z_assignment2"
o (base) vaibhavghangale@VAIBHAVs-MacBook-Air module2_assignment2 % cd "/Users/vaibhavghangale/Downloads/module
2_assignment2/" && javac m2a22q1.java && java m2a22q1
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 m2a22q1.main(m2a22q1.java:7)
o (base) vaibhavghangale@VAIBHAVs-MacBook-Air module2_assignment2 % [
          J m2a2q4.class
          J m2a2q4.iava
          J m2a2q5.java
          J m2a22g1.class
```

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)).

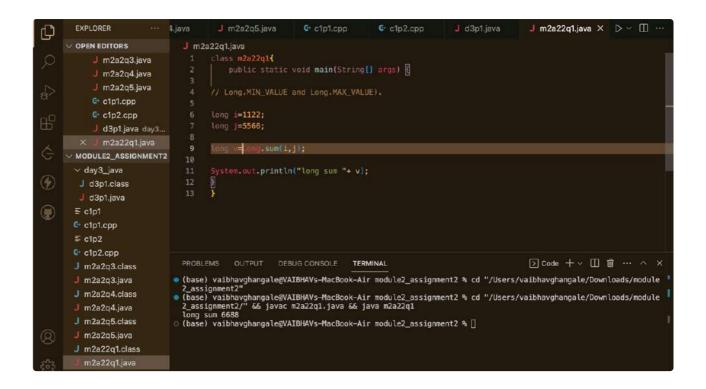


h. Declare a method-local variable strNumber of type String with some long value and convert it to the corresponding wrapper class using Long.valueOf(). (Hint: Use Long.valueOf(String)).





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)).



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)).



```
EXPLORER
                                              J m2a2o5 java
                                                                     G c1p1.cpp
                                                                                         € c1p2.cpp
                                                                                                              J d3p1.java
                                                                                                                                  J m2a22q1.java × ▷ ∽ 🏻
P
                                    J m2a22q1.java
        OPEN EDITORS
             J m2a2q3.java
                                                public static void main(String[] args) [
             J m2a2q4.java
             J m2a2q5.java
             € c1p1.cpp
             € c1p2.cpp
                                            String n= Long.toOctalString(i);
String n= Long.toHexString(i);
             J d3p1.java day3...

✓ MODULE2_ASSIGNMENT2

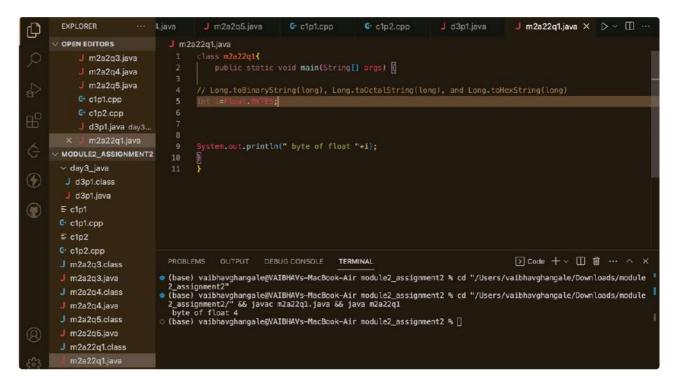
√ day3_java

         J d3p1.class
           d3p1.java
        C c1p1.cpp
        ≡ c1p2
        @ c1p2.cpp
                                    PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
                                                                                                                                  J m2a2g3.class
                                   🏮 (base) vaibhavghangale@VAIBHAVs—MacBook—Air module2_assignment2 % cd "/Users/vaibhavghangale/Downloads/module
         J m2a2q3.java

    (base) vaibhavghangale@VAIBHAVs-MacBook-Air module2_assignment2 % cd "/Users/vaibhavghangale/Downloads/module2_assignment2/" && javac m2a22q1.java && java m2a22q1
binary 111 octal 7 hexa 7
    (base) vaibhavghangale@VAIBHAVs-MacBook-Air module2_assignment2 % []

        J m2a2q4.class
        J m2a2q4.iava
        J m2a2q5.class
        J m2a2q5.java
        J m2a22g1.class
```

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



c. 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).

```
4.java
                          J m2a2q5.java
                                                       € c1p2.cpp
                                                                     J d3p1.java
                                                                                  J m2a22q1.java × ▷ ▽ 🏻 ···
V OPEN EDITORS
                    J m2a22q1.java
    J m2a2q3.java
                            public static void main(String[] args) [
    J m2a2q4.java
    G c1p1.cpp
                         Float i=Float.MIN_VALUE;
Float j=Float.MAX_VALUE;
    C c1p2.cpp
    J d3p1.java day3...

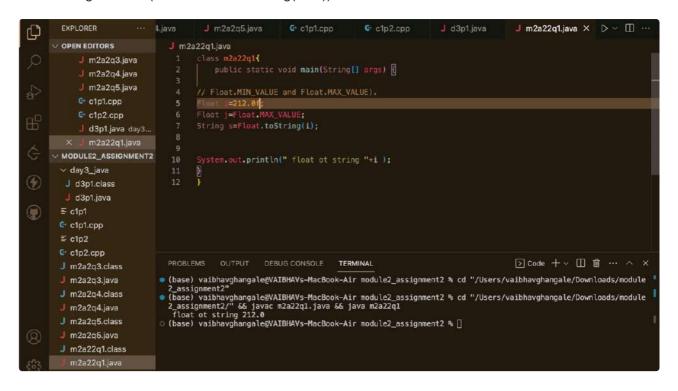
→ MODULE2 ASSIGNMENT2

 day3_java
 J d3p1.class
  J d3p1.java
를 c1p1
 C c1p1.cpp
= c1p2
€ c1p2.cpp
                                                                                  J m2a2g3.class
                  • (base) vaibhavghangale@VAIBHAVs-MacBook-Air module2_assignment2 % cd "/Users/vaibhavghangale/Downloads/module
 J m2a2q3.java
                  J m2a2q4.class
 J m2a2q5.class

■ m2a2q5.java

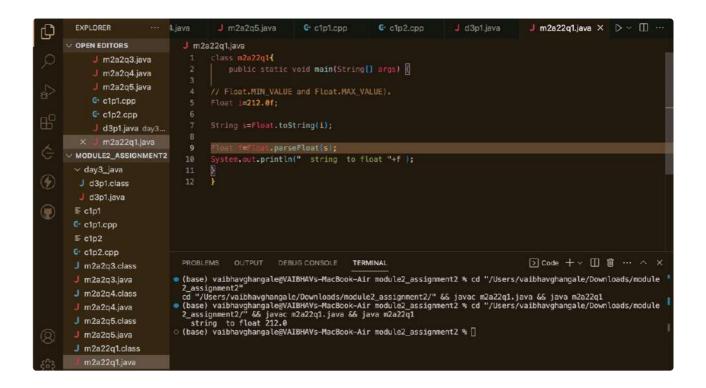
 J m2a22q1.class
```

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)).

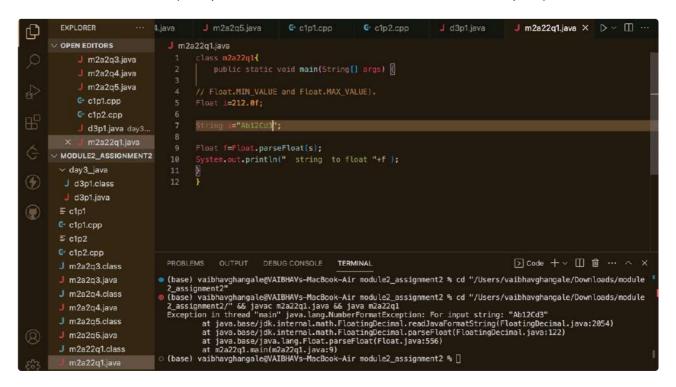


e. Declare a method-local variable strNumber of type String with some value and convert it to a float value using the parseFloat method. (Hint: Use Float.parseFloat(String)).



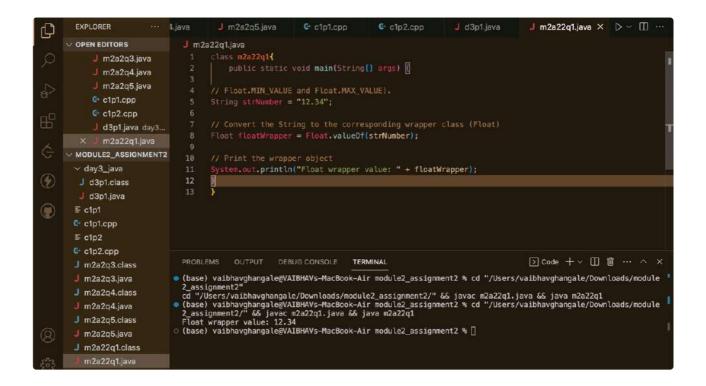


f. Declare a method-local variable strNumber of type String with the value "Ab12Cd3" and attempt to convert it to a float value. (Hint: parseFloat method will throw a NumberFormatException).

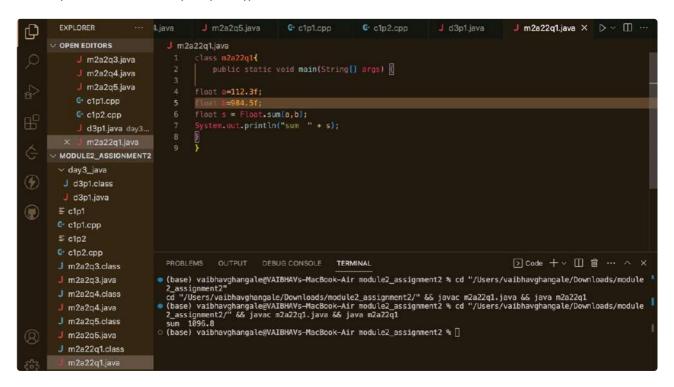


h. Declare a method-local variable strNumber of type String with some float value and convert it to the corresponding wrapper class using Float.valueOf(). (Hint: Use Float.valueOf(String)).

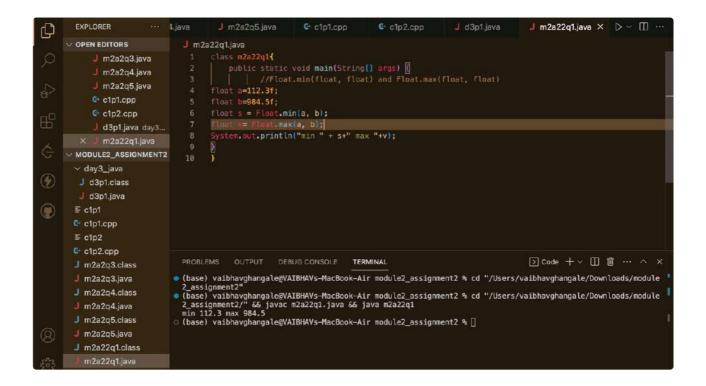




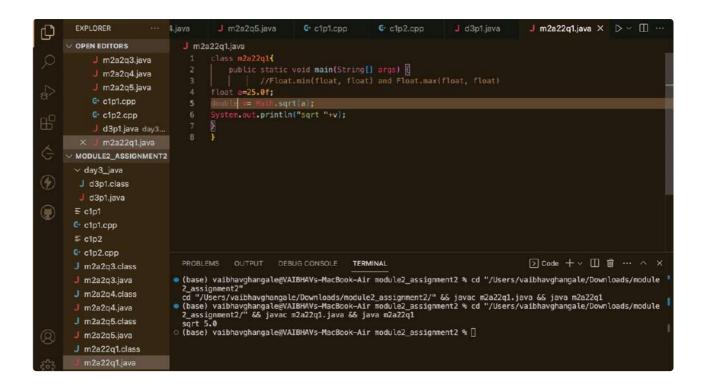
i. Declare two float variables with values 112.3 and 984.5, and add them using a method from the Float class. (Hint: Use Float.sum(float, float)).



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).



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



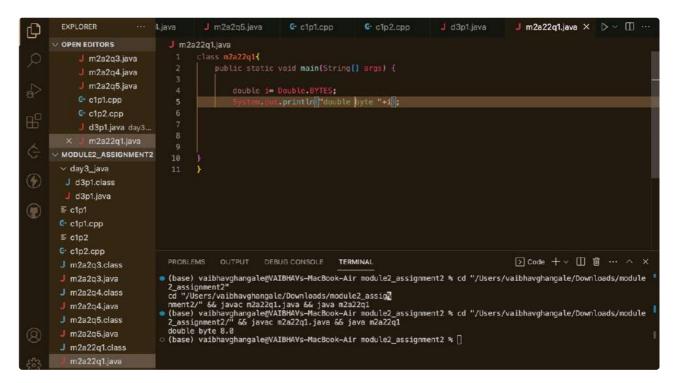
```
EXPLORER
                                  4. java
                                               J m2a2d5 java
                                                                      G c1p1.cpp
                                                                                          € c1p2.cpp
                                                                                                              J d3p1.java
                                                                                                                                  J m2a22q1.java × ▷ ✓ 🏻
凸
                                     J m2a22q1.java
        OPEN EDITORS
             J m2a2q3.java
                                               public static void main(String[] args) [
             J m2a2q4.java
             J m2a2q5.java
                                                                 // Declare two float variables with the value 0.0f
             G+ c1p1.cpp
                                                                 float num1 = 0.0f;
float num2 = 0.0f;
             € c1p2.cpp
             J d3p1.java day3..

✓ MODULE2_ASSIGNMENT2

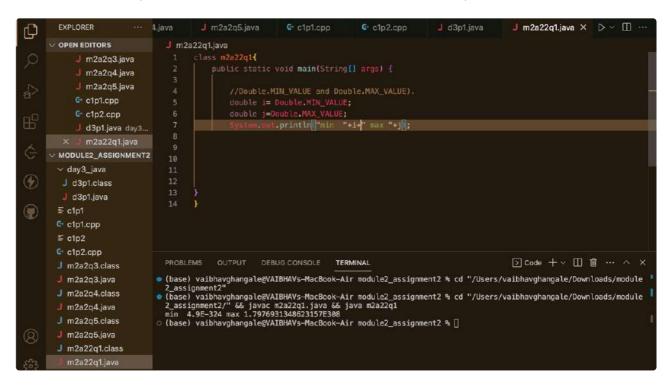
√ day3_java

         J d3p1.class
                                                                    tem.out.println("Result of dividing 0.0f by 0.0f: " + result);
            d3p1.java
        c1p1.cpp
        ≡ c1p2
        @ c1p2.cpp
                                                                                                                                  ∑ Code + ∨ □ ii ··· ∧ ×
                                     PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
        J m2a2g3.class
                                   🏮 (base) vaibhavghangale@VAIBHAVs—MacBook—Air module2_assignment2 % cd "/Users/vaibhavghangale/Downloads/module
         J m2a2q3.java
                                  (base) vaibhavghangale@VAIBHAVs-MacBook-Air module2_assignment2 % cd "/Users/vaibhavghangale/Downloads/module
2_assignment2/" && javac m2a22q1.java && java m2a22q1
Result of dividing 0.0f by 0.0f: NaN
    (base) vaibhavghangale@VAIBHAVs-MacBook-Air module2_assignment2 % []
        J m2a2q4.class
        J m2a2q4.iava
        J m2a2q5.class
        J m2a2q5.java
        J m2a22g1.class
```

- 7. Working with java.lang.Double
- a. Explore the Java API documentation for java.lang.Double and observe its modifiers and super types.
- b. Write a program to test how many bytes are used to represent a double value using the BYTES field. (Hint: Use Double.BYTES).



c. 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)).

```
EXPLORER
                                                                                                                 J m2a2q5.java
                                                                                                                                                                                                                                                € c1p2.cpp
                                                                                                                                                                                                                                                                                                          J d3p1.java
                                                                                                                                                                                                                                                                                                                                                                    J m2a22q1.java × ▷ ~ [] ···
                                                                                                                                                                                      G- c1p1.cpp
W OPEN EDITORS
                                                                                        J m2a22q1.java
                    public static void main(String[] args) [
                   I m2a2q4.java
                   //Double.MIN VALUE and Double.MAX VALUE).
                 G+ c1p1.cpp
                                                                                                                                    double i= Double.MIN_VALUE;
double j=Double.MAX_VALUE;
String s = Double.toString(i);
                 € c1p2.cpp
                    🕹 d3p1.java day3...
                                                                                                                                         System.out.println("double to string "+i);

✓ MODULE2_ASSIGNMENT2

      day3_java
        J d3p1.class
        J d3p1.java
   를 c1p1
    c1p1.cpp
    = c1p2
    G c1p2.cpp
                                                                                                                                                                                                                                                                                                                                                                    ∑ Code + ∨ Ⅲ 値 ··· ∧ ×
     J m2a2q3.class
                                                                                • (base) vaibhavghangale@VAIBHAVs-MacBook-Air module2_assignment2 % cd "/Users/vaibhavghangale/Downloads/module
      J m2a2q3.java
                                                                                Class: / vaibhavghangale@VAIBHAVs-MacBook-Air module2_assignment2 % cd //users/vaibhavghangale/Downloads/module2_assignment2"

(base) vaibhavghangale@VAIBHAVs-MacBook-Air module2_assignment2 % cd "/Users/vaibhavghangale/Downloads/module2_assignment2 % cd "/Users/vaibhavghangale/Downloads/module2_assignment2 % comparts of the compart
    J m2a2q4.class
    J m2a2q5.class
    J m2a2q5.java
    J m2a22q1.class
```

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)).

```
EXPLORER
                             4. java
                                           J m2a2q5.java
                                                                                          € c1p2.cpp
                                                                                                                J d3p1.java
                                                                                                                                      J m2a22q1.java × ▷ ✓ [] --
V OPEN EDITORS
                                 J m2a22q1.java
       J m2a2q3.java
                                               public static void main(String[] args) [
       J m2a2q4.java
       J m2a2q5.java
                                                    //Double.MIN_VALUE and Double.MAX_VALUE).
      G+ c1p1.cpp
      C c1p2.cpp
       J d3p1.java day3...
                                                   double #=Bouble.porseDouble(s);
System.out.println(" string to double "+k);

∨ MODULE2 ASSIGNMENT2

  v day3_java
   J d3p1.class
   J d3p1.java
 를 c1p1
 C c1p1.cpp
 = c1p2
 C c1p2.cpp
                                                                                                                                      J m2a2g3.class
                              • (base) vaibhavghangale@VAIBHAVs-MacBook-Air module2_assignment2 % cd "/Users/vaibhavghangale/Downloads/module
  J m2a2q3.java
                              | Clase | Validhavghangale@VAIBHAVS=MacBook=Air | module2_assignment2 % cd | /Users/vaibhavghangale/Downloads/module 2_assignment2 % cd | /Users/vaibhavghangale/Downloads/module 2_assignment2/ % & javac m2a22q1.java && java m2a22q1 | string to double 4.9E=324 | (base) vaibhavghangale@VAIBHAVs=MacBook=Air module2_assignment2 % |
 J m2a2q4.class
 J m2a2q5.class

■ m2a2q5.java

  J m2a22q1.class
```

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).

```
J d3p1.java
                                                                                                                                                                                      J m2a22q1.java × ▷ ~ [] --
¢
        V OPEN EDITORS
                                                    J m2a22q1.java
                  J m2a2q3.java
                                                                     public static void main(String[] args) [
                     m2a2q4.java

    J m2a2q5.java

                 G c1p1.cpp
                 C c1p2.cpp
                 🚽 d3p1.java day3...
                                                                            System.out.println(" string to double "+k);

✓ MODULE2_ASSIGNMENT2

             day3_java
             J d3p1.class
              J d3p1.java
          를 c1p1
           C c1p1.cpp
           = c1p2
           € c1p2.cpp
                                                   PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
                                                                                                                                                                                     J m2a2o3.class
                                                • (base) vaibhavghangale@VAIBHAVs-MacBook-Air module2_assignment2 % cd "/Users/vaibhavghangale/Downloads/module
           J m2a2q3.java
                                                2_assignment2"

(base) vaibhavghangale@VAIBHAVs=MacBook-Air module2_assignment2 % cd "/Users/vaibhavghangale@Downloads/module
2_assignment2"

(base) vaibhavghangale@VAIBHAVs=MacBook-Air module2_assignment2 % cd "/Users/vaibhavghangale/Downloads/module
2_assignment2/" && javac m2a22q1.java && java m2a22q1

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

at java.base/jdk.internal.math.FloatingDecimal.readJavaFormatExtring(FloatingDecimal.java:2054)

at java.base/jdk.internal.math.FloatingDecimal.parseDouble(FloatingDecimal.java:110)
           J m2a2q4.class
            J m2a2q4.java
           J m2a2q5.class
                                                 at java.base/java.lang.Double.parseDouble(Double.java:792)
at m2a22q1.main(m2a22q1.java:7)
(base) vaibhavghangale@VAIBHAVs-MacBook-Air module2_assignment2 % []
           J m2a22q1.class
```

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)).



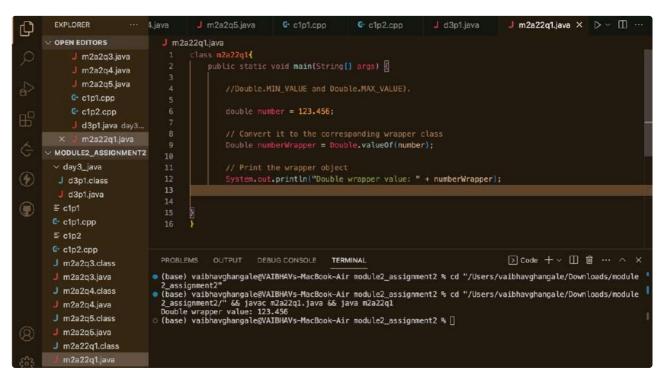
```
EXPLORER
                                    J m2a2d5 lava
                                                         G c1p1.cpp
                                                                           € c1p2.cpp
                                                                                              J d3p1.java
                                                                                                                J m2a22q1.java × ▷ ~ 🏻 ·
                           J m2a22q1.java
V OPEN EDITORS
      J m2a2q3.java
      J m2a2q4.java
      J m2a2q5.java
     € c1p1.cpp
     € c1p2.cpp
                                           double number = 123.456;
      J d3p1.java day3...
                                                               per = Double.valueOf(number);

✓ MODULE2_ASSIGNMENT2

√ day3_java

  J d3p1.class
                                           System.out.println("Double wrapper value: " + numberWrapper);
    d3p1.java
 C c1p1.cpp
 ≡ c1p2
 C c1p2.cpp
                                                                                                                ∑ Code + ∨ □ ii ··· ∧ ×
                          PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
 J m2a2g3.class
                         🌞 (base) vaibhavghangale@VAIBHAVs—MacBook—Air module2_assignment2 % cd "/Users/vaibhavghangale/Downloads/module
  J m2a2q3.java
 J m2a2q4.class
                         • (base) vaibhavghangale@VAIBHAVs-MacBook-Air module2_assignment2 % cd "/Users/vaibhavghangale/Downloads/module2_assignment2/" && javac m2a22q1.java && java m2a22q1
Double wrapper value: 123.456
 J m2a2q4.iava
                          ○ (base) vaibhavghangale@VAIBHAVs-MacBook-Air module2_assignment2 % []
 J m2a2q5.java
 J m2a22g1.class
```

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)).



```
EXPLORER
                                               J m2a2d5 lava
                                                                      G c1p1.cpp
                                                                                          € c1p2.cpp
                                                                                                              J d3p1.java
                                                                                                                                   J m2a22q1.java × ▷ ∽ 🎹 ···
                                     J m2a22q1.java
      V OPEN EDITORS
             J m2a2q3.java
             J m2a2q4.java
             J m2a2q5.java
                                                   Double b=984.5;
Double sum =Double.sum(a, b);
             € c1p1.cpp
             € c1p2.cpp
             J d3p1.java day3...
                                                                  ut.println[]"sum is | " + sum[];

✓ MODULE2_ASSIGNMENT2

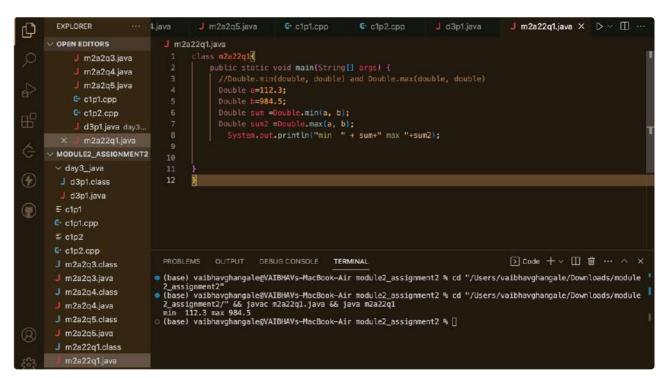
√ day3_java

         J d3p1.class
           d3p1.java
        C c1p1.cpp
        ≡ c1p2
       C c1p2.cpp
                                   PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
                                                                                                                                   ∑ Code + ∨ □ 	 □ ··· ^ ×
        J m2a2g3.class
                                   🌞 (base) vaibhavghangale@VAIBHAVs—MacBook—Air module2_assignment2 % cd "/Users/vaibhavghangale/Downloads/module
         J m2a2q3.java

    (base) vaibhavghangale@VAIBHAVs-MacBook-Air module2_assignment2 % cd "/Users/vaibhavghangale/Downloads/module2_assignment2/" && javac m2a22q1.java && java m2a22q1 sum is 1096.8
    (base) vaibhavghangale@VAIBHAVs-MacBook-Air module2_assignment2 % []

        J m2a2q4.class
        J m2a2q4.iava
        J m2a2q5.class
(Q)
        J m2a2q5.java
        J m2a22g1.class
```

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).

```
EXPLORER
                                           J m2a2q5.java
                                                                G c1p1.cpp
                                                                                  € c1p2.cpp
                                                                                                     J d3p1.java
                                                                                                                       J m2a22q1.java × ▷ ✓ 🏻 ··
凸
                                  J m2a22q1.java
        OPEN EDITORS
            J m2a2q3.java
                                             public static void main(String[] args) []
            J m2a2q4.java
                                             //Double.min(double, double) and Double.max(double, double)
double number = 25.0;
            J m2a2q5.java
            € c1p1.cpp
            € c1p2.cpp
            J d3p1.java day3..

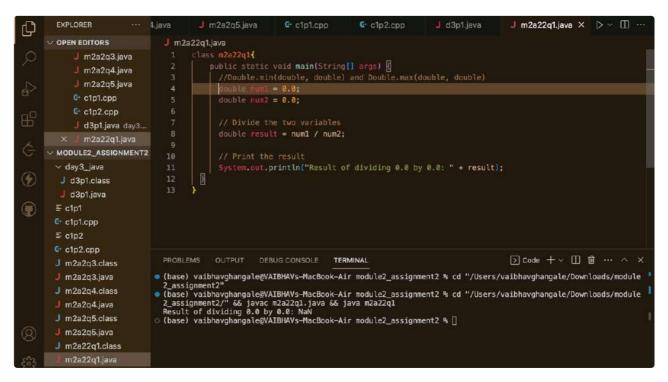
✓ MODULE2_ASSIGNMENT2

                                                   tem.out.println("Square root of " + number + " is: " + sqrtResult);

√ day3_java

        J d3p1.class
           d3p1.java
       C c1p1.cpp
       @ c1p2.cpp
                                                                                                                       ∑ Code + ∨ □ ii ··· ∧ ×
                                 PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
       J m2a2g3.class
                               🌞 (base) vaibhavghangale@VAIBHAVs—MacBook—Air module2_assignment2 % cd "/Users/vaibhavghangale/Downloads/module
        J m2a2q3.java
       J m2a2q4.class
                               • (base) vaibhavghangale@VAIBHAVs-MacBook-Air module2_assignment2 % cd "/Users/vaibhavghangale/Downloads/module2_assignment2/" && javac m2a22q1.java && java m2a22q1
Square root of 25.0 is: 5.0
       J m2a2q4.iava
       J m2a2q5.class
                                ○ (base) vaibhavghangale@VAIBHAVs-MacBook-Air module2_assignment2 % []
       J m2a2q5.java
       J m2a22g1.class
```

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



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()).

```
EXPLORER
                                                                                                            € c1p2.cpp
                                                                                                                                    J d3p1.java
                                                                                                                                                             J m2a22q1.java × ▷ ∨ [] --
P
        W OPEN EDITORS
                                             J m2a22q1.java
                J m2a2q3.java
                                                            public static void main(String[] args) []
                                                                int intVar = 42;
float floatVar = 3.14f;
double doubleVar = 123.456;
boolean boolVar = true;
char charVar = 'A';
byte byteVar = 10;
short shortVar = 500;
long longVar = 100000L;
                J m2a2q4.java
                J m2a2q5.java
               G+ c1p1.cpp
                C c1p2.cpp
              J d3p1.java day3...

✓ MODULE2_ASSIGNMENT2

√ day3_java

                                                                 String intStrl = Integer.toString(intVar);
String floatStrl = Float.toString(floatVar);
String doubleStrl = Bouble.toString(doubleVar);
String boolStrl = Boolean.toString(boolVar);
String charStrl = Character.toString(charVar);
String byteStrl = Byte.toString(byteVar);
String shortStrl = Short.toString(shortVar);
String longStrl = Long.toString(longVar);
           J d3p1.class
           J d3p1.java
         C c1p1.cpp
         ≡ c1p2
         C c1p2.cpp
         J m2a2o3.class
                                             20
          J m2a2q3.java
                                                                  String intStr2 = String.valueOf(intVar);
String floatStr2 = String.valueOf(floatVar);
String doubleStr2 = String.valueOf(doubleVar)
          J m2a2q4.class
                                                                                                      g.valueOf(doubleVar);
          J m2a2q4.java
                                                                  String boolStr2 = String.valueOf(boolVar);
String charStr2 = String.valueOf(charVar);
          J m2a2q5.class
          J m2a2q5.java
                                                                                  Str2 = String.valueOf(byteVar);
tStr2 = String.valueOf(shortVar);
         J m2a22q1.class
                                                                                ngStr2 = String.valueOf(longVar);
          EXPLORER
                                                                                                                                                            J m2a22q1.java × ▷ ~ 🏻 …
                                                                                                                                    J d3p1.java
       W OPEN EDITORS
                                             J m2a22q1.java
               J m2a2q3.java
                                                                  System.out.println("int: " + intStr1);
                J m2a2q4 java
                                                                  System.out.println("float: " + floatStr1);
System.out.println("double: " + doubleStr1);
                J m2a2q5.java
               € c1p1.cpp
                                                                   ystem.out.println("boolean: " + boolStr1);
               € c1p2.cpp
                                                                  System.out.println("char: " + charStr1);
                J d3p1.java day3...
                                                                  System.out.println("byte: " + byteStr1);
           × J m2a22q1.java
                                                                  System.out.println("short: " + shortStr1);
                                                                  System.out.println("long: " + long5tr1);

✓ MODULE2_ASSIGNMENT2

√ day3_java

                                                                  System.out.println("\nUsing valueOf():");
           J d3p1.class
                                                                  System.out.println("int: " + intStr2);
                                                                  System.out.println("float: " + floatStr2);
System.out.println("double: " + doubleStr2);
           J d3p1.java
         를 c1p1
                                                                   ystem.out.println("boolean: " + boolStr2);
         € c1p1.cpp
         System.out.println("byte: " + byteStr2);
         € c1p2.cpp
                                                                     stem.out.println("short: " + shortStr2);
                                                                  System.out.println("long: " + longStr2);
         J m2a2q3.class
          J m2a2g3.java
         J m2a2q4.class
          J m2a2q4.iava
          J m2a2q5.class
          J m2a2q5.java
          J m2a22q1.class
```

