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 <u>Java API documentation for java.lang.Boolean</u> 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)).

```
Program:
```

```
public class bool {
  public static void main(String[] args) {
    boolean status = true;
    String stringstr = Boolean.toString(status);
    System.out.println(stringstr);
  }
}
```

C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\JAVA\Day 3\Day 3 practice>java bool.java

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)).

Program:

```
boolean boolstatus=Boolean.parseBoolean(strStatus);

System.out.println(" String to boolean "+boolstatus);

}
```

C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\JAVA\Day 3\Day 3 practice>java bool1.java String to boolean 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").

Program:

```
public class BooleanConversion {
  public static void main(String[] args) {
    String strStatus = "1"; // or "0"
    boolean boolStatus = Boolean.parseBoolean(strStatus);
    System.out.println("Converted boolean value: " + boolStatus);
}
```

C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA 00P\JAVA\Day 3\Day 3 practice>java bool2.java Converted boolean value: false

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)).

```
public class BooleanConversion{
   public static void main(String[] args) {
      boolean status = true;
      Boolean wrappedStatus = Boolean.valueOf(status); // Autoboxing also works
      System.out.println("Wrapped boolean value: " + wrappedStatus);
   }
```

}

Output:

C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\JAVA\Day 3\Day 3 practice>java bool3.java Wrapped boolean value: true

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)).

Program:

```
public class BooleanConversion {
  public static void main(String[] args) {
    String strStatus = "true";
    Boolean wrappedStatus = Boolean.valueOf(strStatus);
    System.out.println(wrappedStatus);
}
```

C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\JAVA\Day 3\Day 3 practice>java bool4.java true

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

Program:

```
public class Qg{
public static void main(String args [])
{
boolean status=false;
int strbool = (status) ? 1 :0;
System.out.println("Boolean to Int: "+strbool);
}
}
```

C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA 00P\JAVA\Day 3\Day 3 practice\Boolean>java bool5.java Boolean to Int: 0

2. Working with java.lang.Byte

- **a.** Explore the <u>Java API documentation for java.lang.Byte</u> 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).

```
program:
class Byteb{
    public static void main(String args[]){
        int bytesUsed = Byte.BYTES;

        System.out.println("Bytes used to represent a byte value: "
        +bytesUsed);
    }
}
```

C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\JAVA\Day 3\Day 3 practice\Byte> java Byteb.java Bytes used to represent a byte value: 1

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).

```
public class ByteExample {
    public static void main(String[] args) {
        System.out.println("Minimum byte value: " + Byte.MIN_VALUE);
        System.out.println("Maximum byte value: " + Byte.MAX_VALUE);
    }
}
Output:
```

C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\JAVA\Day 3\Day 3 practice\Byte> java Bytec.java Minimum byte value: -128
Maximum byte value: 127

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)).

Program:

```
public class ByteExample {
  public static void main(String[] args) {
    byte number = 100;
    String strNumber = Byte.toString(number);
    System.out.println(strNumber);
  }
}
```

Output:

 $C:\Users\n \Op\Desktop\CDAC\Module\ 2\ JAVA\ OOP\JAVA\Day\ 3\Day\ 3\ practice\Byte>\ java\ ByteD.java\ 100$

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)).

Program:

```
public class ByteE{
  public static void main(String[] args) {
    byte number = 100;
    String strNumber = Byte.toString(number);
    System.out.println(strNumber);
}
```

C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\JAVA\Day 3\Day 3 practice\Byte> java ByteE.java 100

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).

Program:

```
public class ByteF{
  public static void main(String[] args) {
    String strNumber = "Ab12cd3";
    byte number = Byte.parseByte(strNumber);
    System.out.println(number);
}
```

Output:

```
C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA ODP\JAVA\Day 3\Day 3 practice\Byte> java Bytef.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 ByteF.main(Bytef.java:5)
```

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)).

```
public class ByteG{
  public static void main(String[] args) {
    byte number = 42;
    Byte byteObject = Byte.valueOf(number);
    System.out.println(byteObject);
```

```
}
}
Output:
```

C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\JAVA\Day 3\Day 3 practice\Byte> java ByteG.java 42

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)).

Program:

```
public class ByteH {
  public static void main(String[] args) {
    String strNumber = "127";
    Byte byteObject = Byte.valueOf(strNumber);
    System.out.println("Byte object from string: " + byteObject);
  }
}
```

C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\JAVA\Day 3\Day 3 practice\Byte> java ByteH.java 127

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

public class Bytel{

```
public static void main(String[] args) {
  byte number = 10;
  int intValue = number;
  short shortValue = number;
  long longValue = number;
  float floatValue = number;
```

double doubleValue = number;

```
System.out.println("Byte value as int: " + intValue);

System.out.println("Byte value as short: " + shortValue);

System.out.println("Byte value as long: " + longValue);

System.out.println("Byte value as float: " + floatValue);

System.out.println("Byte value as double: " + doubleValue);

}
```

```
C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\JAVA\Day 3\Day 3 practice\Byte>java ByteI.java Byte value as int: 10
Byte value as short: 10
Byte value as long: 10
Byte value as float: 10.0
Byte value as double: 10.0
```

3. Working with java.lang.Short

- **a.** Explore the <u>Java API documentation for java.lang.Short</u> 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).

```
program:
```

```
public class ShortB {
  public static void main(String[] args) {
     System.out.println("Bytes used to represent a short value: " + 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).

Program:

```
public class ShortC{
  public static void main(String[] args) {
     System.out.println("Minimum short value: " + Short.MIN_VALUE);
     System.out.println("Maximum short value: " + Short.MAX_VALUE);
  }
}
```

Output:

```
C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\JAVA\Day 3\Day 3 practice\Short>java shortC.java
Minimum short value: -32768
Maximum short value: 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)).

Program:

```
public class ShortD{
  public static void main(String[] args) {
    short number = 32000;
    String strNumber = Short.toString(number);
    System.out.println("String representation of short value: " + strNumber);
}
```

C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\JAVA\Day 3\Day 3 practice\Short>java shortD.java String representation of short value: 32000

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)).

```
public class ShortE {
  public static void main(String[] args) {
    String strNumber = "12345";
    short number = Short.parseShort(strNumber);
    System.out.println("Short value from string: " + number);
  }
}
Output:

C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\JAVA\Day 3\Day 3 practice\Short>java shortE.java
Short value from string: 12345
```

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).

Program:

```
public class ShortF {
  public static void main(String[] args) {
    String strNumber = "Ab12cd3";
    short number = Short.parseShort(strNumber);
    System.out.println("Short value from string: " + number);
}
```

```
C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\JAVA\Day 3\Day 3 practice\Short>
C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\JAVA\Day 3\Day 3 practice\Short>java shortF.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.Short.parseShort(Short.java:137)
    at java.base/java.lang.Short.parseShort(Short.java:163)
    at ShortF.main(shortF.java:5)
```

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)).

Program:

```
public class ShortG{
  public static void main(String[] args) {
    short number = 10000;
    Short wrapper = Short.valueOf(number);
    System.out.println("Short object: " + wrapper);
  }
}
```

C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\JAVA\Day 3\Day 3 practice\Short> C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\JAVA\Day 3\Day 3 practice\Short>java shortG.java Short object: 10000

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)).

Program:

```
public class ShortH{
  public static void main(String[] args) {
    String strNumber = "32767";
    Short shortval = Short.valueOf(strNumber);
    System.out.println("Short object from string: " + shortval);
}
```

C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\JAVA\Day 3\Day 3 practice\Short>java shortH.java Short object from string: 32767

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

```
Program:
public class Shortl {
  public static void main(String[] args) {
```

```
short number = 100;
int intValue = number;
byte byteValue = (byte) number; // Casting needed
long longValue = number;
float floatValue = number;
double doubleValue = number;

System.out.println("Short value as int: " + intValue);
System.out.println("Short value as byte (with casting): " +
byteValue);
System.out.println("Short value as long: " + longValue);
System.out.println("Short value as float: " + floatValue);
System.out.println("Short value as double: " + doubleValue);
}
```

Output:

```
C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA 00P\JAVA\Day 3\Day 3 practice\Short>java shortI.java Short value as int: 100
Short value as byte (with casting): 100
Short value as long: 100
Short value as float: 100.0
Short value as double: 100.0
```

4. Working with java.lang.Integer

- **a.** Explore the <u>Java API documentation for java.lang.Integer</u> 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).

```
program:
```

```
public class IntegerExample {
   public static void main(String[] args) {
        System.out.println("Bytes used to represent an int value: " + Integer.BYTES);
   }
}
```

C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA 00P\JAVA\Day 3\Day 3 practice\Integer>java Integerb.java Bytes used to represent an int value: 4

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).

```
public class IntegercC {
  public static void main(String[] args) {
    System.out.println("Minimum int value: " + Integer.MIN_VALUE);
    System.out.println("Maximum int value: " + Integer.MAX_VALUE);
  }
}
Output:
 C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\JAVA\Day 3\Day 3 practice\Integer>java IntegercC.java
 Minimum int value: -2147483648
Maximum int value: 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)).
Program:
public class IntegerExample {
  public static void main(String[] args) {
    int number = 100;
    String strNumber = Integer.toString(number);
    System.out.println("String representation of int value: " + strNumber);
  }
Output:
 C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\JAVA\Day 3\Day 3 practice\Integer>java IntegerD.java
 String representation of int value: 100
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)).
Program:
public class IntegerExample {
  public static void main(String[] args) {
```

```
String strNumber = "123";

int number = Integer.parseInt(strNumber);

System.out.println("Int value from string: " + number);

}
```

Output:

C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\JAVA\Day 3\Day 3 practice\Integer>java IntegerE.java Int value from string: 123

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).

Program:

```
public class ShortF {
  public static void main(String[] args) {
    String strNumber = "Ab12cd3";
    int number = Integer.parseInt(strNumber);
    System.out.println("int value from string: " + number);
  }
}
```

```
C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\JAVA\Day 3\Day 3 practice\Integer>java IntegerF.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.Integer.parseInt(Integer.java:786) at ShortF.main(IntegerF.java:5)
```

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)).

Program:

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

```
int number = 100;
Integer wrapperObject = Integer.valueOf(number);
System.out.println("Integer object: " + wrapperObject);
}
```

Output:

C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\JAVA\Day 3\Day 3 practice\Integer>java IntegerG.java Integer object: 100

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)).

Program:

```
public class IntegerExample {
   public static void main(String[] args) {
      String strNumber = "456";
      int wrapperObject = Integer.valueOf(strNumber);
      System.out.println("Integer object from string: " + wrapperObject);
   }
}
```

C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\JAVA\Day 3\Day 3 practice\Integer>java IntegerH.java Integer object from string: 456

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)).

Program:

```
public class IntegerExample {
  public static void main(String[] args) {
  int a = 10;
  int b = 20;
```

```
int sum = Integer.sum(a, b);
System.out.println("Sum of 10 and 20: " + sum);
}
Output:
```

C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA 00P\JAVA\Day 3\Day 3 practice\Integer>java IntegerI.java Sum of 10 and 20: 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)).

Program:

```
public class IntegerJ{
  public static void main(String[] args) {
    int a = 10;
    int b = 20;
    int minValue = Integer.min(a, b);
    int maxValue = Integer.max(a, b);
    System.out.println("Minimum value between 10 and 20: " + minValue);
    System.out.println("Maximum value between 10 and 20: " + maxValue);
}
```

C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\JAVA\Day 3\Day 3 practice\Integer>java IntegerJ.java Minimum value between 10 and 20: 10 Maximum value between 10 and 20: 20

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)).

Program:

}

```
public class IntegerExample {
```

```
public static void main(String[] args) {
    int number = 7;
    String binary = Integer.toBinaryString(number);
     String octal = Integer.toOctalString(number);
     String hex = Integer.toHexString(number);
     System.out.println("Binary representation of 7: " + binary);
     System.out.println("Octal representation of 7: " + octal);
    System.out.println("Hexadecimal representation of 7: " + hex);
  }
}
Output:
 C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\JAVA\Day 3\Day 3 practice\Integer>java IntegerK.java
 Binary representation of 7: 111
Octal representation of 7: 7
Hexadecimal representation of 7: 7
 C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\JAVA\Day 3\Day 3 practice\Integer>
I. Experiment with converting an int value into other primitive types or vice
versa and observe the results.
Program:
public class IntegerExample {
  public static void main(String[] args) {
    int number = 45;
    byte byteValue = (byte) number; // Explicit casting needed
    short shortValue = (short) number; // Explicit casting
    long longValue = number;
    float floatValue = number;
    double doubleValue = number;
    System.out.println("Int value as byte: " + byteValue); // with casting
```

```
System.out.println("Int value as short: " + shortValue); //with casting

System.out.println("Int value as long: " + longValue);

System.out.println("Int value as float: " + floatValue);

System.out.println("Int value as double: " + doubleValue);

}

C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\JAVA\Day 3\Day 3 practice\Integer>java IntegerL.java Int value as byte: 45
Int value as short: 45
Int value as float: 45.0
```

5. Working with java.lang.Long

Int value as double: 45.0

- **a.** Explore the <u>Java API documentation for java.lang.Long</u> 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).

program:

```
public class LongBytes {
   public static void main(String[] args) {
      System.out.println("Bytes used by long: " + Long.BYTES);
   }
}
```

C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\JAVA\Day 3\Day 3 practice\long>java long1.java Bytes used by long: 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).

Program:

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

```
System.out.println("Min value of long: " + Long.MIN_VALUE);

System.out.println("Max value of long: " + Long.MAX_VALUE);

}
```

Output:

```
C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\JAVA\Day 3\Day 3 practice\long>java long2.java Min value of long: -9223372036854775808 Max value of long: 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)).

Program:

```
public class LongToString {
  public static void main(String[] args) {
    long number = 12345L; // Method-local variable
    String strNumber = Long.toString(number); // Conversion to String
    System.out.println("String representation of long: " + strNumber);
  }
}
```

C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\JAVA\Day 3\Day 3 practice\long>java long3.java String representation of long: 12345

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)).

```
public class StringToLong {
   public static void main(String[] args) {
      String strNumber = "54321"; // Method-local variable
      long number = Long.parseLong(strNumber); // Conversion to long
```

```
System.out.println("Converted long value: " + number);
}

C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA 00P\JAVA\Day 3\Day 3 practice\long>java long4.java
Converted long value: 54321

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).

Program:
```

```
class InvalidStringToLong {
   public static void main(String[] args) {
      String strNumber = "Ab12Cd3"; // Method-local variable
      System.out.println("NumberFormatException: " + e.getMessage());
   }
}
```

Output:

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)).

```
public class LongToWrapper {
   public static void main(String[] args) {
      long number = 98765L; // Method-local variable
      Long longWrapper = Long.valueOf(number); // Conversion to Long wrapper class
```

```
System.out.println("Long wrapper object: " + longWrapper);
}
Output:
```

:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\JAVA\Day 3\Day 3 practice\long>java long6.java _ong wrapper object: 98765

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)).

Program:

```
public class StringToWrapper {
   public static void main(String[] args) {
      String strNumber = "67890"; // Method-local variable
      Long longWrapper = Long.valueOf(strNumber); // Conversion to Long wrapper class
      System.out.println("Long wrapper object: " + longWrapper);
   }
}
```

C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA 00P\JAVA\Day 3\Day 3 practice\long>java long7.java Long wrapper object: 67890

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)).

Program:

Output:

C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\JAVA\Day 3\Day 3 practice\long>java long8.java Sum of 1123 and 9845 is: 10968

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)).

```
public class long9{
  public static void main(String[] args) {
    long num1 = 1122;
    long num2 = 5566;
    long min = Long.min(num1, num2);
    long max = Long.max(num1, num2);
    System.out.println("Minimum value: " + min);
    System.out.println("Maximum value: " + max);
}
```

Output:

```
C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\Assignments\Sandeep sir assignments\Assignment 2\ass2\long>java ong9.java Minimum value: 1122 Maximum value: 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)).

```
public class LongConversionExample {
  public static void main(String[] args) {
    long num = 7;
    String binaryString = Long.toBinaryString(num);
    String octalString = Long.toOctalString(num);
    String hexString = Long.toHexString(num);
    System.out.println("Binary representation: " + binaryString);
    System.out.println("Octal representation: " + octalString);
    System.out.println("Hexadecimal representation: " + hexString);
}
```

}

Output:

```
C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA 00P\Assignments\Sandeep sir assignments\Assignment 2\ass2\long>java long10.java
Binary representation: 111
Octal representation: 7
Hexadecimal representation: 7
```

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

Program code:

```
public class LongConversionExperiment {
  public static void main(String[] args) {
    long num = 123456789L;
    int intValue = (int) num;
    short shortValue = (short) num;
    byte byteValue = (byte) num;
    double doubleValue = (double) num;
    float floatValue = (float) num;
    System.out.println("Original long value: " + num);
    System.out.println("Converted to int: " + intValue);
    System.out.println("Converted to short: " + shortValue);
    System.out.println("Converted to byte: " + byteValue);
    System.out.println("Converted to double: " + doubleValue);
    System.out.println("Converted to float: " + floatValue);
 }
```

```
C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\Assignments\Sandeep sir assignments\Assignment 2\ass2\long>java
ong11.java
Original long value: 123456789
Converted to int: 123456789
Converted to short: -13035
Converted to byte: 21
Converted to double: 1.23456789E8
Converted to float: 1.23456792E8
```

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).

```
program:
```

```
public class FloatB {
  public static void main(String[] args) {
    System.out.println("Size: " + Float.BYTES);
  }
}
```

C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\Assignments\Sandeep sir assignments\Assignment 2\ass2\Float>java

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).

Program:

}

Output:

```
public class FloatC{
  public static void main(String[] args) {
    System.out.println("Minimum float value: " + Float.MIN VALUE);
    System.out.println("Maximum float value: " + Float.MAX_VALUE);
 }
```

```
C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 floatC.java
Minimum float value: 1.4E-45
Maximum float value: 3.4028235E38
```

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)).

Program:

```
public class floatD {
  public static void main(String[] args) {
    float number = 123.45f;
    String str = Float.toString(number);
    System.out.println("Float to String: " + str)
  }
}
```

Output:

```
C:\Users\rahul\OneDrive\Desktop\CDAC\Modul
floatD.java
Float to String: 123.45
```

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)).

```
public class floatE {
  public static void main(String[] args) {
    String strNumber = "123.45";
    float number = Float.parseFloat(strNumber);
    System.out.println("String to float: " + number);
```

```
}
```

Output:

```
C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\Assignments\Sandeep sir assignments\Assignment 2\ass2\Float>java floatE.java
String to float: 123.45
```

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).

Program:

```
public class floatF {
  public static void main(String[] args) {
    String strNumber = "Ab12Cd3";
    float number = Float.parseFloat(strNumber);
    System.out.println("Converted value: " + number);
}
```

Output:

```
C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA 00P\Assignments\Sandeep sir assignments\Assignment 2\ass2\Float>java floatF.java
floatF.java
Exception in thread "main" java.lang.NumberFormatException: For input string: "Ab12Cd3"
at java.base/jdk.internal.math.FloatingDecimal.readJavaFormatString(FloatingDecimal.java:2054)
at java.base/jdk.internal.math.FloatingDecimal.parseFloat(FloatingDecimal.java:122)
at java.base/java.lang.Float.parseFloat(Float.java:476)
at floatF.main(floatF.java:7)
```

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)).

```
public class floatG {
  public static void main(String[] args) {
    float a = 112.2f;
    float b = 556.6f;
    float min = Float.min(a, b);
```

```
float max = Float.max(a, b);
System.out.println("Minimum value: " + min);
System.out.println("Maximum value: " + max);
}
```

Output:

```
C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\Assignments\Sandeep sir assignments\Assignment 2\ass2\Float>java
floatG.java
Minimum value: 112.2
Maximum value: 556.6
```

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)).

```
Program:
```

```
public class floatH {
  public static void main(String[] args) {
    String strNumber = "123.45";
    Float floatWrapper = Float.valueOf(strNumber);
    System.out.println("String to Float wrapper: " + floatWrapper);
  }
}
```

Output:

```
C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\Assignments\Sandeep sir assignments\Assignment 2\ass2\Float>java floatH.java
String to Float wrapper: 123.45
C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\Assignments\Sandeep sir assignments\Assignment 2\ass2\Float>
```

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)).

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

```
float a = 112.3f;
    float b = 984.5f;
    float sum = Float.sum(a, b);
    System.out.println("Sum of 112.3 and 984.5: " + sum);
  }
}
```

Output:

C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\Assignments\Sandeep sir assignments\Assignment 2\ass2\Float>java C. (03613) floatI.java Sum of 112.3 and 984.5: 1096.8

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)).

Program:

```
public class floatJ {
  public static void main(String[] args) {
    float a = 112.2f;
    float b = 556.6f;
    float min = Float.min(a, b);
    float max = Float.max(a, b);
    System.out.println("Minimum value: " + min);
    System.out.println("Maximum value: " + max);
```

Output:

\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA 00P\Assignments\Sandeep sir assignments\Assignment 2\ass2\Float>java floatJ.java Minimum value: 112.2 Maximum value: 556.6

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

Program:

```
public class floatK {
  public static void main(String[] args) {
    float number = -25.0f;
    double sqrt = Math.sqrt(number);
    System.out.println("Square root of -25.0: " + sqrt);
  }
}
```

Output:

C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\Assignments\Sandeep sir assignments\Assignment 2\ass2\Float>java floatK.java Square root of -25.0: NaN

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

Program:

```
public class floatL {
  public static void main(String[] args) {
    float a = 0.0f;
    float b = 0.0f;
    float result = a / b;
    System.out.println("0.0 / 0.0 = " + result);
  }
}
```

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

Program:

```
public class floatM {
  public static void main(String[] args) {
    float floatValue = 123.45f;
    int intValue = (int) floatValue;
    System.out.println("Float to int: " + intValue);
    double doubleValue = floatValue;
    System.out.println("Float to double: " + doubleValue);
    intValue = 123;
    float floatFromInt = (float) intValue;
    System.out.println("Int to float: " + floatFromInt);
    doubleValue = 123.45;
    float floatFromDouble = (float) doubleValue;
    System.out.println("Double to float: " + floatFromDouble);
}
```

Output:

```
C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\Assignments\Sandeep sir assignments\Assignment 2\ass2\Float>java floatM.java Float to int: 123 Float double: 123.44999694824219 Int to float: 123.0 Double to float: 123.45
```

7. Working with java.lang.Double

a. Explore the <u>Java API documentation for java.lang.Double</u> 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).

```
program:
public class DoubleB {
    public static void main(String[] args) {
        System.out.println("Number of bytes used to represent a double: " + Double.BYTES);
    }
}
output:
```

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).

Program:

```
public class doubleC {
  public static void main(String[] args) {
    System.out.println("Minimum value of double: " + Double.MIN_VALUE);
    System.out.println("Maximum value of double: " + Double.MAX_VALUE);
}
```

Output:

```
C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\Assignments\Sandeep sir assignments\Assignment 2\ass2\Double>java doubleC.java
Minimum value of double: 4.9E-324
Maximum value of double: 1.7976931348623157E308
C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\Assignments\Sandeep sir assignments\Assignment 2\ass2\Double>
```

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)).

```
Program:

public class doubleD {

   public static void main(String[] args) {

        double number = 123.456;

        String strNumber = Double.toString(number);

        System.out.println("String representation of the double value: " +

strNumber);

   }

}

Output:

C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\Assignments\Sandeep sir assignments\Assignment 2\ass2\Double>java
doubleD.java
String representation of the double value: 123.456
```

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)).

Program:

```
public class doubeE{
  public static void main(String[] args) {
    String strNumber = "456.789";
    double number = Double.parseDouble(strNumber);
    System.out.println("Double representation of the string value: " + number);
}
```

Output:

C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\Assignments\Sandeep sir assignments\Assignment 2\ass2\Double>java doubleE.java
Double representation of the string value: 456.789

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).

```
Program:
public class doubleF {
  public static void main(String[] args) {
     String strNumber = "Ab12Cd3"; // Declare method-local variable with the
given value
     float number = Float.parseFloat(strNumber);
     System.out.println("Converted value: " + number);
  }
}
Output:
C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\Assignments\Sandeep sir assignments\Assignment 2\
Exception in thread "main" java.lang.NumberFormatException: For input string: "Ab12Cd3"
at java.base/jdk.internal.math.FloatingDecimal.readJavaFormatString(FloatingDecimal.java:2054)
at java.base/jdk.internal.math.FloatingDecimal.parseFloat(FloatingDecimal.java:122)
at java.base/java.lang.Float.parseFloat(Float.java:476)
at doubleF.main(doubleF.java:7)
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)).
Program:
public class DoubleValueOfTest {
  public static void main(String[] args) {
     double number = 789.123;
     Double wrapperDouble = Double.valueOf(number);
     System.out.println("Double wrapper class object: " + wrapperDouble);
  }
}
Output:
```

```
C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAV#
doubleG.java
Double wrapper class object: 789.123
```

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)).

Program:

```
public class StringToDoubleValueOfTest {
  public static void main(String[] args) {
    String strNumber = "123.456";
    Double WDS= Double.valueOf(strNumber);
    System.out.println("Double wrapper class object: " +WDS);
  }
}
```

Output:

C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\Assignments\Sandeep sir assignments\Assignment 2\ass2\Double>java doubleH.java
Double wrapper class object: 123.456

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)).

```
public class doublel {
  public static void main(String[] args) {
    double num1 = 112.3;
    double num2 = 984.5;
    double sum = Double.sum(num1, num2);
    System.out.println("Sum of the two double values: " + sum);
}
```

}

Output:

```
C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\Assignments\Sandeep sir assignments\Assignment 2\ass2\Double>java
doubleI.java
Sum of the two double values: 1096.8
```

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)).

Program:

```
public class DoubleMinMaxTest {
  public static void main(String[] args) {
    double num1 = 112.2;
    double num2 = 556.6;
    double min = Double.min(num1, num2);
    double max = Double.max(num1, num2);
    System.out.println("Minimum value: " + min);
    System.out.println("Maximum value: " + max);
}
```

Output:

```
C:\Users\rahu\\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\Assignments\Sandeep sir assignments\Assignment 2\ass2\Double>java doubleJ.java Mininum value: 112.2
Maximum value: 556.6
```

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

```
public class doubleK {
  public static void main(String[] args) {
    double number = -25.0;
    double sqrt = Math.sqrt(number);
```

```
System.out.println("Square root of " + number + " is: " + sqrt);
 }
}
Output:
C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JA
 doubleK.java
Square root of -25.0 is: NaN
C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JA
I. Declare two double variables with the same value, 0.0, and divide them.
(Hint: Observe the result and any special floating-point behavior).
Program::
public class doubleL {
  public static void main(String[] args) {
    double num1 = 0.0;
   double num2 = 0.0;
    double result = num1 / num2;
   System.out.println("Result of dividing 0.0 by 0.0: " + result);
 }
}
Output:
 C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA
  doubleL.java
 Result of dividing 0.0 by 0.0: NaN
m. Experiment with converting a double value into other primitive types or
vice versa and observe the results.
Program:
public class doubleM {
  public static void main(String[] args) {
```

```
double number = 123.456;
   int intValue = (int) number;
   float floatValue = (float) number;
   long longValue = (long) number;
   System.out.println("Double value: " + number);
    System.out.println("Converted to int: " + intValue);
    System.out.println("Converted to float: " + floatValue);
   System.out.println("Converted to long: " + longValue);
 }
}
 C:\Users\rahul\OneDrive\Desktop\CDA(
  doubleM.java
 Double value: 123.456
 Converted to int: 123
 Converted to float: 123.456
 Converted to long: 123
```

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()).

```
public class Primitive {
  public static void main(String[] args) {
    Scanner sc = new Scanner(System.in);
    System.out.print("Enter an integer: ");
    int intVal = sc.nextInt();
    System.out.print("Enter a double: ");
```

```
double doubleVal = sc.nextDouble();
    System.out.print("Enter a boolean: ");
    boolean boolVal = sc.nextBoolean();
    // Converting using toString() method of wrapper classes
    String intToString = Integer.toString(intVal);
    String doubleToString = Double.toString(doubleVal);
    String boolToString = Boolean.toString(boolVal);
    System.out.println("\nConversion using toString() method:");
    System.out.println("Integer as String: " + intToString);
    System.out.println("Double as String: " + double To String);
    System.out.println("Boolean as String: " + boolToString);
      Then, use the valueOf method of the String class. (e.g.,
       String.valueOf()).
public class Primitive {
  public static void main(String[] args) {
    Scanner sc = new Scanner(System.in);
    System.out.print("Enter an integer: ");
    int intVal = sc.nextInt();
    System.out.print("Enter a double: ");
    double doubleVal = sc.nextDouble();
    System.out.print("Enter a boolean: ");
    boolean boolVal = sc.nextBoolean();
 // Converting using valueOf() method of String class
    String intValueOf = String.valueOf(intVal);
    String doubleValueOf = String.valueOf(doubleVal);
```

```
String boolValueOf = String.valueOf(boolVal);
```

```
System.out.println("\nConversion using valueOf() method:");
System.out.println("Integer as String: " + intValueOf);
System.out.println("Double as String: " + doubleValueOf);
System.out.println("Boolean as String: " + boolValueOf);
```

```
C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA OOP\Assignmediava primitive.jav
Enter an integer: 15
Enter a double: 45.00
Enter a boolean: true

Conversion using toString() method:
Integer as String: 15
Double as String: 45.0
Boolean as String: true

Conversion using valueOf() method:
Integer as String: 15
Double as String: 45.0
Boolean as String: 45.0
Boolean as String: true
```

9. Default Values of Primitive Types

Program:

long longVal;

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).

```
public class DefaultValues {

// Instance variables (have default values)

byte byteVal;

short shortVal;

int intVal;
```

```
float floatVal;
double doubleVal;
char charVal;
boolean booleanVal;
// Static variables (also have default values)
static byte staticByteVal;
static short staticShortVal;
static int staticIntVal;
static long staticLongVal;
static float staticFloatVal;
static double staticDoubleVal;
static char staticCharVal;
static boolean staticBooleanVal;
public static void main(String[] args) {
  // Create an instance to check instance variable default values
  DefaultValues obj = new DefaultValues();
  // Display default values of instance variables
  System.out.println("Default values of instance variables:");
  System.out.println("byte: " + obj.byteVal);
  System.out.println("short: " + obj.shortVal);
  System.out.println("int: " + obj.intVal);
  System.out.println("long: " + obj.longVal);
  System.out.println("float: " + obj.floatVal);
```

```
System.out.println("double: " + obj.doubleVal);
    System.out.println("char: [" + obj.charVal + "]"); // Displays an empty
space
    System.out.println("boolean: " + obj.booleanVal);
    // Display default values of static variables
    System.out.println("\nDefault values of static variables:");
    System.out.println("byte: " + staticByteVal);
    System.out.println("short: " + staticShortVal);
    System.out.println("int: " + staticIntVal);
    System.out.println("long: " + staticLongVal);
    System.out.println("float: " + staticFloatVal);
    System.out.println("double: " + staticDoubleVal);
    System.out.println("char: [" + staticCharVal + "]");
    System.out.println("boolean: " + staticBooleanVal);
  }
}
Output:
```

```
C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAV
java DefaultValues.jav
Default values of instance variables:
byte: 0
short: 0
int: 0
long: 0
float: 0.0
double: 0.0
char: []
boolean: false
Default values of static variables:
byte: 0
short: 0
int: 0
long: 0
float: 0.0
double: 0.0
char: []
boolean: false
```

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).

```
Program:
public class ArithmeticOperations {
  public static void main(String[] args) {
    Scanner scanner = new Scanner(System.in);

    // Input two integers
    System.out.print("Enter the first integer: ");
    int num1 = scanner.nextInt();
    System.out.print("Enter the second integer: ");
    int num2 = scanner.nextInt();

    // Input the operator
    System.out.print("Enter an arithmetic operator (+, -, *, /): ");
    char operator = scanner.next().charAt(0);
```

```
// Perform the operation using switch-case
    switch (operator) {
      case '+':
        System.out.println("Result: " + (num1 + num2));
        break;
      case '-':
        System.out.println("Result: " + (num1 - num2));
        break;
      case '*':
        System.out.println("Result: " + (num1 * num2));
        break;
      case '/':
        if (num2 != 0) {
          System.out.println("Result: " + (num1 / num2));
        } else {
           System.out.println("Error: Division by zero is not allowed.");
        }
        break;
      default:
        System.out.println("Error: Invalid operator.");
    scanner.close();
  }
}
```

```
c:\Users\ranut\unebrive\Desktop\CDAC\Module 2 JAVA UUP
>java B10.java
Enter the first integer: 10
Enter the second integer: 15
Enter an arithmetic operator (+, -, *, /): +
Result: 25
C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA 00P\A
>java B10.java
Enter the first integer: 25
Enter the second integer: 15
Enter an arithmetic operator (+, -, *, /): -
Result: 10
C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA 00P\A
>java B10.java
Enter the first integer: 45
Enter the second integer: 18
Enter an arithmetic operator (+, -, *, /): *
Result: 810
C:\Users\rahul\OneDrive\Desktop\CDAC\Module 2 JAVA 00P\
>java B10.java
Enter the first integer: 55
Enter the second integer: 5
Enter an arithmetic operator (+, -, *, /): /
Result: 11
```