

## Chapter 02 Assignments (Medium difficulty)

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Here are some Java 17 programming assignments that must be solved with bitwise operators:

1. Write a Java program to multiply a number by 2 using bitwise operators.
2. Write a Java program to divide a number by 2 using bitwise operators.
3. Write a Java program to determine the number of bits that are set to 1 in an integer.
4. Write a Java program to check if a number is even or odd using bitwise operators.
5. Write a Java program to set a bit in a given position of an integer.
6. Write a Java program to clear a bit in a given position of an integer.
7. Write a Java program to toggle a bit in a given position of an integer.
8. Write a Java program to check if a given bit is set in an integer. (i.e., if the bit is 1)
9. Write a Java program to extract the nth bit of an integer.
10. Write a Java program to reverse the bits of an integer.