## **Operators and Expressions**

- 1. Write a program that demonstrates the use of arithmetic operators.
- 2. Create a program that calculates the remainder of two numbers using modulus operator.
- 3. Write a program to demonstrate the increment and decrement operators.
- 4. Create a program that shows the precedence of operators by using multiple operators in an expression.
- 5. Write a program that demonstrates the use of logical operators.
- 6. Create a program to evaluate a simple arithmetic expression (like a + b \* c).
- 7. Write a program to demonstrate the ternary (conditional) operator.
- 8. Create a program to calculate the area of a circle using pi \* r \* r.
- 9. Write a program that takes two numbers and performs all arithmetic operations on them.
- 10. Create a program that converts a temperature from Fahrenheit to Celsius.
- 11. Write a program to demonstrate the relational operators.
- 12. Create a program to show the use of assignment operators.
- 13. Write a program to demonstrate compound assignment operators (+=, -=, etc.).
- 14. Create a program to check whether two integers are equal using the equality operator.
- 15. Write a program to demonstrate the logical AND, OR, and NOT operators.
- 16. Create a program that reads three integers and prints the smallest number.
- 17. Write a program that demonstrates the bitwise AND operator.
- 18. Create a program to calculate the compound interest.
- 19. Write a program to find whether a number is positive or negative using a ternary operator.
- 20. Create a program that uses the size of operator to print the size of variables.