**Exercise 1: Odd or Even**

Write a program that takes a number as input and prints whether it is odd or even.

**Exercise 2: Number Comparison**

Create a program that takes two numbers as input and prints the larger number.

**Exercise 3: Sum of First N Numbers**

Write a program that calculates the sum of the first N positive integers, where N is provided by the user.

**Exercise 4: Multiplication Table**

Ask the user for a number, and then print its multiplication table up to 10 using a loop.

**Exercise 5: FizzBuzz**

Write a program that prints numbers from 1 to 50. For multiples of 3, print "Fizz"; for multiples of 5, print "Buzz"; and for multiples of both 3 and 5, print "FizzBuzz".

**Exercise 6: Factorial Calculation**

Write a program that calculates the factorial of a number provided by the user.

**Exercise 7: Find Maximum from 3 Numbers**

Take three numbers from the user and use conditional statements to find and print the largest of them.

**Exercise 8: Count Down**

Create a program that takes a number as input and counts down to 1.

**Exercise 9: Sum of Even Numbers**

Write a program that calculates the sum of all even numbers between 1 and 100.

**Exercise 10: Check Prime Number**

Write a program that takes a number and prints whether it is a prime number or not.

**Exercise 11: Reverse a Number**

Take an integer input from the user and print its reverse. For example, if the input is 123, the output should be 321.

**Exercise 12: Grade Classification**

Write a program that takes a score from 0 to 100 as input and prints the grade (A, B, C, D, or F) according to a grading scale.

**Exercise 13: Print All Multiples of 5**

Create a program that prints all multiples of 5 from 1 to 100.

**Exercise 14: Simple Calculator**

Write a simple calculator program that can add, subtract, multiply, or divide two numbers. Ask the user which operation they want to perform.

**Exercise 15: Sum of Digits**

Take a number as input and calculate the sum of its digits. For example, if the input is 123, the output should be 6.

**Exercise 16: Find Minimum in a List**

Take 5 numbers as input from the user and use conditional statements to find and print the smallest of them.

**Exercise 17: Vowel or Consonant**

Write a program that takes a character as input and prints whether it is a vowel or a consonant.

**Exercise 18: Print All Odd Numbers**

Create a program that prints all odd numbers from 1 to 50.

**Exercise 20: Guess the Number Game**

Write a simple "Guess the Number" game where the computer picks a random number between 1 and 10, and the user has to guess it. The program should give feedback if the guess is too high or too low until the correct answer is guessed.

**ARRAYS**  
**1. Array Initialization and Access**

* Create an array of 5 integers and initialize it with values from 1 to 5. Print all the elements of the array.

**2. Sum of Elements**

* Write a program that creates an array of 10 integers, asks the user to input values for each element, and then calculates and prints the sum of all the elements in the array.

**3. Finding the Largest Element**

* Create an array of integers and find the largest element in the array. Print the value of the largest element.

**4. Reversing an Array**

* Write a program that takes an array of integers and reverses the order of the elements. Print the reversed array.

**5. Count Occurrences of a Specific Element**

* Write a program that takes an array of integers and counts the number of times a specific value (e.g., 7) appears in the array.

**6. Array Copy**

* Create an array of 5 integers and copy the contents into another array. Print both arrays to verify that the copying is correct.

**7. Average of Array Elements**

* Write a program that calculates and prints the average of the elements in an array of double values.

**8. Sorting an Array**

* Create an array of 10 integers with random values. Write a program that sorts the array in ascending order without using any built-in sort methods.

**9. Finding the Second Largest Element**

* Write a program that finds and prints the second largest element in an array of integers.

**10. Remove an Element from Array**

* Write a program that removes a specific element (e.g., at index 3) from an array of integers, and shifts all remaining elements left to fill the gap. Print the modified array.