1. **Data Manipulation with Lists and Conditionals:** Create a list of numbers. Write a program to find and print the sum of all even numbers in the list.
2. **String Manipulation and Loops:** Given a string, write a program to count and print the number of vowels (a, e, i, o, u) in the string using a for loop.
3. **Working with Dictionaries:** Create a dictionary of students and their exam scores. Write a program to find and print the student with the highest score.
4. **User Input and Validation:** Create a program that asks the user to input a number. Check if the input is a prime number and display the result. Provide validation to ensure the input is a positive integer.
5. **Nested Loops and Patterns:** Write a program to print a pyramid pattern of numbers. The number of rows and the character used can be specified by the user.
6. **Advanced String Operations:** Given a long string, count the occurrences of each word in the string and display the results as a dictionary where the keys are words, and values are the word counts.
7. **Recursion:** Write a recursive function to calculate the factorial of a given number. Test it with different values.
8. **File Handling:** Create a program that reads data from a CSV file and calculates the average of a specific column. Then, write the result to another file.
9. **Working with Sets:** Create two sets with some common and unique elements. Write a program to find and print the elements that are common to both sets.
10. **Advanced Conditionals:** Create a program that simulates a grading system. It takes a student's score as input and assigns a letter grade based on a predefined grading scale. Make sure to handle exceptional cases (e.g., scores above 100 or below 0).

**1.Fibonacci series :**

**0,1,1,2,3,5,8,13,21,34**