1. Write a Scala function to calculate the factorial of a given number.

2. Write a Scala function to check if a given number is prime.

3. Write a Scala function to calculate the sum of digits in a given number.

4. Write a Scala function to reverse a given string.

5. Write a Scala function to check if a given string is a palindrome.

6. Write a Scala function to find the maximum element in an array.

7. Write a Scala function to calculate the power of a number.

8. Write a Scala function to check if a given number is even.

9. Write a Scala function to check if a given number is a perfect square.

10. Write a Scala function to check if a given list is sorted in ascending order.