Exercise 1

Ask the user to input for a number. Check whether the number is even or odd, print out an appropriate message to the user.

Exercise 2

Ask the user for a string and print out whether this string is a palindrome or not. A **palindrome** is a string that reads the same forwards and backwards.

Exercise 3

Write a program that takes a list of numbers (for example, a = [10, 25, 9, 23]) and create a new list with the first and last elements of the given list.

Exercise 4

Write a function that takes a list of numbers. The function decides whether or not the given number is inside the list and returns an appropriate Boolean.

Exercise 5

Write a program that will loop over the following list: a = [8, 9, 10, 11, 13, 81, 101, 100, 94]. If number is prime, print its square. Use continue keyword.