Exercise 1)

Get the sum of two arrays...actually the sum of all their elements.

P.S. Each array includes only integer numbers. Output is a number too.

```
let arr_1 = [3, 5, 22, 5,  7,  2,  45, 75, 89, 21, 2]; // --> 276
let arr_2 = [9, 2, 42, 55, 71, 22, 4,  5,  90, 25, 26]; // --> 351
// Example output:
// 276 + 351 = 627
```

Exercise 2)

Using a for loop print all even numbers up to and including n. Don't include 0.

```
let n1 = 22;
// Example output:
// 2 4 6 8 10 12 14 16 18 20 22 OR each item on a new line
```

Exercise 3)

Using a for loop output the elements in reverse order

```
let arr = [43, "what", 9, true, "cannot", false, "be", 3, true];
// Example output:
// true 3  be  false cannot  true 9 what 43 OR each item on a new line
```

Exercise 4)

Given two arrays of integers. Add up each element in the same position and

create a new array containing the sum of each pair. Assume both arrays are of the same

length.

```
let arr_3  = [4, 6, 7];
let arr_4   = [8, 1, 9];
```

```
// Example output:
// [12, 7, 16]
```

Exercise 5)

Given a string change the every second letter to an uppercase 'Z'. Assume

there are no space.

```
let str1 = "javascript";
// Example output:
// jZvZsZrZpZ OR each letter on a new line
// HINT: You can use  if((i+1) % 2 == 0) to check for even indexes
```

Exercise 6)

Check if a string contains the letter "y". Print "yes" if it does and "no" if it does not.

```
let str2 = "don't know why";
// Example output:
// "yes"
```

Exercise 7)

Given a number n Calculate the factorial of the number

```
let n2 = 4; //  4 * 3 * 2 * 1 = 24
// Example output:
// 24
```

Exercise 8)

Write a program that will allow someone to guess a four digit pin exactly 4

times. If the user guesses the number correctly. It prints "That was

correct!" Otherwise it will print "Sorry that was wrong." Program stops after the 4th attempt

of if they got it right.

```
let pin = 0704;
// Example output:
// Please make your guess:
// 4544
// Sorry that was wrong.
// Please make your guess:
// 4444
// Sorry that was wrong.
// Please make your guess:
// 0704
// That was correct!
```

Exercise 9)

Write a program that will check if two strings are palindromes. A palindrome is a word that

spells the same forward and backward.

Palindrome: a word, phrase, or sequence that reads the same backward as

forward, e.g., madam or nurses run.

```
let str3 = "racecar";
let str4 = "Java";
// Example output:
// string1 palindrome?:
// Yes
// string2 palindrome?:
// No
```