Assignment 2

- 1. Create a null vector of size 20 but the 10th value of 20
- Create a vector of positive odd integers less than 100. Remove the values greater than 60 and less than 80
- 3. Find the mean, standard deviation of the resulting vector in Q2
- 4. Consider the following vector of values. X <-{8, 14, 9, 15, NA, 8,13, 2,9, NA}. Find the positions of the missing values and how many are there
- 5. Create two matrices from the given vectors
 X1 = {2,3,7,1,6,2,3,5,1} and X2 = {3,2,9,0,7,8,5,8,2}. Find the matrix product.

6. From the string:
"Silver Gold Copper Platinum"
Use str.split, a loop, string
manipulation and str.join to create the
following sentence. Notice that the
metals are in alphabetical order.

"Copper and gold and platinum and silver are only worth money."

- If x is from 1 to 4, add one to y.
- If x is not 1, 2, 3, 4, 5, 6, or 7, make y equal to 7.
- For what values of x are the following true? x > 0 and x < 3
- $x \le 0 \text{ or } x \ge 3$

- 9. Make a 5 x 8 Numpy array of random integers from 1 10. Iterate through each row of your array and report the rows where the numbers add to an even number.
- 10. Write a function that accumulates into a list, 5 lotto picks. Each lotto pick is a 'list' of 6 numbers from 1 to 52, with no repeats. Present them sorted, and printed them like this: Your lotto picks:

6, 9, 10, 29, 37, 43

1, 2, 10, 29, 31, 32

4, 16, 22, 39, 43, 44

4, 10, 12, 28, 37, 44

15, 16, 22, 24, 49, 52