1. **Write the following equation using the Greek symbols as variable names and calculate the value of Y:**

   `Y = β0 + X.β1 + ε`

   `where, β0 = 4, X = 12.56, β1 = -23, ε = 0.1234`

2. **Create a dictionary of Renaissance artists.**
   The keys should be the names Donatello, Michelangelo, Raphael, and Leonardo (Da Vinci of course).
   The value for each key is a tuple containing each artist's city of birth, year of death, and the actor who voiced them in Teenage Mutant Ninja Turtles (https://www.imdb.com/title/tt0318913/)

3. **Create a string containing the lyrics to Eiffel 65's (still amazing) song 'Blue [Da Ba Dee]' (https://www.songfacts.com/lyrics/eiffel-65/blue-da-ba-dee).**
   Calculate the number of characters in the lyrics [Hint: length()].
   Split the lyrics into substrings at every occurrence of the word 'blue' [Hint: split()].

4. **Create two variables called Series_A and Series_B, each being a vector of 100 random numbers [Hint: rand()].**
   Plot Series_A against Series_B using the default line plot and overlay it with a scatter plot of the same data with diamond markers [Hint: plot!()].
   Don't forget to include axes labels and a title!