- “A nut for a jar of tuna” this is an example of a palindrome sentence. A palindrome sentence is those that can be spelled the same way forward an backward. Into the next table on the right side, write down the step-by-step (natural language, NO CODE) to determine if a sentence is a palindrome or not. On the left side list all the java functions you can use to solve this problem.

Java Functions	Step - by - step or algorithm
lenght() **charAt()**	The first step to know whether the phrase is palindrome or not it’s comparing the first characters against the last one So then we need create variables which allows to prove the conditions In the first loop iteration we will compare word[0] and word[length-1] in that form we can increment one variable which start in 0 and decrement other variable which starts in the end of the phrase, we also need one variable which allow to control when the first variable come to the middle[Length/2] because is not make sense carry on comparing with the other data Now if the first (increment) and the second (decrement) are not equal in this case the condition is no longer true so the loop terminates and this will return false. In other hand if the variables are equal in each iteration this will finish satisfactorily and will return true as a valid response of algorithm method

- You have a piggy bank, you can only insert coins of the following denomination.

  50, 100, 200, 500 & 1000

  Keeping in mind the previous description:

  - Represent the logic of a piggy bank using java code. means that you can insert but not remove coins.
  - You have the option to know how many coins are in the piggy bank.
  - You have the option to how many coins are by a specific denomination.