**The algorithm below counts the length of characters in a sentence by looping through the sentence variable/array**

ALGORITHM CALCULATE\_SENTENCE\_LEN

VAR

    Count, totalCharacter: INTEGER:=0

    sentence :STRING

BEGIN

   Read(sentence)

   WHILE (sentence[count]<>".") DO

    count = count +1

   END\_WHILE

   totalCharacter=count+1

END

**The algorithm below counts the number of vowels by checking predefined vowels case statements**

ALGORITHM CALCULATE\_VOWELS

VAR

    counter,totalvow: INTEGER:=0;

    sentence :STRING;

BEGIN

   Read(sentence)

   WHILE (sentence[counter]<>".") DO

    SWITCH (sentence[count]) DO

        case a : totalvow=totalvow+1;

        case e : totalvow=totalvow+1

        case i : totalvow=totalvow+1

        case o : totalvow=totalvow+1

        case u : totalvow=totalvow+1

        default : totalvow=totalvow+0

    END\_SWITCH

counter=counter+1

   END\_WHILE

END

**The Algorithm below calculates the number of words in a sentence by incrementing the word counter after every space**

ALGORITHM CALCULATE\_WORD\_LEN

VAR

    count:=0 ,totalwords:=0, INTEGER:=0;

    sentence :STRING;

BEGIN

   Read(sentence)

   WHILE (sentence[count]<>".") DO

    if sentence[count] ==" "

     totawords = totawords + 1

  else

      totalwords=totalwords+0

count=count+1

   END\_WHILE

END