```
import java.util.*;
public class Tokenizer
  public static void main(String args[])
    Scanner br = new Scanner(System.in);
    System.out.println("Enter a Paragraph");
    String input = br.nextLine();
     String palindrome_words = " ";
    String upper_lower = " ";
    StringTokenizer sentences = new StringTokenizer(input,".?!");//For extracting each sentence.
    System.out.println("\nNumber of sentences: "+sentences.countTokens());
    if(sentences.countTokens()>5)
       System.out.println("\nError Message: Number of sentences is higher than five !");
     while(sentences.hasMoreTokens())
       String sentence = sentences.nextToken();
       StringTokenizer words = new StringTokenizer(sentence," ");//For extracting the words
       int count = 0;
       System.out.print("\nSentence : "+sentence);
       while(words.hasMoreTokens())
         String word = words.nextToken();
         for(int i=0;i<word.length();i++)
            char ch = Character.toUpperCase(word.charAt(i));
            if(ch=='A'||ch=='E'||ch=='I'||ch=='O'||ch=='U')
              count++;
          }
       System.out.println("\nNumber of vowels: "+count);
```

```
StringTokenizer words2 = new StringTokenizer(sentence," ");//For extracting the words
       while(words2.hasMoreTokens())
         String word = words2.nextToken();
         String rev = "";
         if(word.length()>1)
           for(int i=word.length()-1; i>=0; i--)
              rev+=word.charAt(i);
           if(Character.isUpperCase(word.charAt(0)) &&
Character.isLowerCase(word.charAt(word.length()-1)))
              upper_lower = upper_lower+word+", ";
           if(rev.equalsIgnoreCase(word))
              palindrome_words = palindrome_words+word+", ";
         }
       }
    System.out.println("\nPalindrome Words:
"+palindrome_words.substring(0,palindrome_words.length()-2));
    System.out.println("Words starting with Uppercase and ending in lowercase:
"+upper_lower.substring(0,upper_lower.length()-2));
}
OUTPUT
Enter a Paragraph
This is a Tokenizer program. My native language is Malayalam. I write code! Will you finish now?
Thank you! Good Luck!
Number of sentences: 6
Error Message: Number of sentences is higher than five!
Sentence: This is a Tokenizer program
Number of vowels: 9
Sentence: My native language is Malayalam
```

Number of vowels: 12

Sentence : I write code Number of vowels: 5

Sentence: Will you finish now

Number of vowels: 6

Sentence: Thank you Number of vowels: 3

Sentence : Good Luck Number of vowels: 3

Palindrome Words: Malayalam

Words starting with Uppercase and ending in lowercase: This, Tokenizer, My, Malayalam, Will, Thank,

Good, Luck