Algorithm

Aim: To obtain the number of words in a sentence and sort it in alphabetical order

1). Start

2), main() – Input a String and store it in sentence.

    a). String sentence = br.nextLine();

    b). StringTokenizer words = new StringTokenizer(sentence,".,!? ");

    c). int words_count = words.countTokens();
      String word[] = new String[words_count];

    d). for(int i = 0;i<words_count;i++)

```
{
   if(words.hasMoreTokens())
   {
      word[i] = words.nextToken();
   }
}
```

    e). for(int i = 0;i<words_count;i++)

```
{
   for(int j = i+1; j< words_count;j++)
   {
      if(word[i].compareTo(word[j])>0)
      {
         String temp = word[i];
         word[i] = word[j];
         word[j] = temp;
      }
   }
}
```

f). System.out.println("\nLENGTH: "+words_count);
  System.out.println("REARRANGED SENTENCE");

g). for(int i = 0;i<words_count;i++)
    {
      System.out.print(word[i]+" ");
    }

3). Stop