Java Program to find the largest and smallest word in a string (input with in the program)

```
packagefriday;
          publicclassSmallestLargestWord{
          publicstaticvoid main(String[] args){
              String string = "Hardships often prepare ordinary people for an extraordinary
              String word = "", small = "", large="";
              String[] words = new String[100];
          intlength = 0;
          //Add extra space after string to get the last word in the given string
          string = string + " ";
          for(inti = 0; i<string.length(); i++){</pre>
          //Split the string into words
          if(string.charAt(i) != ' '){
          word = word + string.charAt(i);
                  }
          else{
          //Add word to array words
          words[length] = word;
          //Increment length
          length++;
           //Make word an empty string
          word = "";
              }
           //Initialize small and large with first word in the string
          small = large = words[0];
          //Determine smallest and largest word in the string
          for(intk = 0; k<length; k++){</pre>
          //If length of small is greater than any word present in the string
           //Store value of word into small
          if(small.length() >words[k].length())
          small = words[k];
          //If length of large is less than any word present in the string
           //Store value of word into large
          if(large.length() <words[k].length())</pre>
          large = words[k];
          System.out.println("Smallest word: " + small);
          System.out.println("Largest word: " + large);
} }
OUTPUT
          p - pranava/src/friday/SmallestLargestWord.java - Eclipse
          <u>File Edit Source Refactor Navigate Search Project Run Window Help</u>
          terminated > SmallestLargestWord [Java Application] C:\Program Files\Java\jre1.8.0_221\bin\javaw.exe (22-May-2020, 3:04:44 PM)
```

Smallest word: an

Largest word: extraordinary

## Java Program to find the largest and smallest word in a string(input from the keyboard)

```
packagefriday;
importjava.io.BufferedReader;
importjava.io.InputStreamReader;
publicclassLargestAndSmallestWord {
// Method to split the string and find the largest and smallest word
staticvoidprintLargestAndSmallestWord(String str){
        String[] arr=str.split(" ");
inti=0;
intmaxlength,minlength;
maxlength=Integer.MIN VALUE;
minlength=Integer.MAX_VALUE;
        String largest, smallest;
largest = smallest = "";
for(i=0;i<arr.length;i++){</pre>
if(arr[i].length() <minlength){</pre>
smallest=arr[i];
minlength=arr[i].length();
if(arr[i].length() >maxlength) {
largest=arr[i];
maxlength=arr[i].length();
            }
System.out.println("The largest and smallest word is: \"" + largest +
"\" and \"" + smallest + "\"");
    }
// Main function to read the string
publicstaticvoid main(String[] args) {
BufferedReaderbr = newBufferedReader(newInputStreamReader(System.in));
System.out.println("Enter the text string");
        String str;
try{
str=br.readLine();
        }
catch(Exception e){
System.out.println("Error reading input");
return;
printLargestAndSmallestWord(str);
    }
```

## **OUTPUT**

}

```
p - pranava/src/friday/LargestAndSmallestWord.java - Eclipse

File Edit Source Refactor Navigate Search Project Run Window Help

Console 
Console
```