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

**package** friday;

**public** **class** SmallestLargestWord{

**public** **static** **void** main(String[] args){

String string = "Hardships often prepare ordinary people for an extraordinary destiny";

String word = "", small = "", large="";

String[] words = **new** String[100];

**int** length = 0;

//Add extra space after string to get the last word in the given string

string = string + " ";

**for**(**int** i = 0; i < string.length(); i++){

//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**(**int** k = 0; k < length; k++){

//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())

large = words[k];

}

System.***out***.println("Smallest word: " + small);

System.***out***.println("Largest word: " + large);

} }

**OUTPUT**

A screenshot of a social media post

Description automatically generated

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

**package** friday;

**import** java.io.BufferedReader;

**import** java.io.InputStreamReader;

**public** **class** LargestAndSmallestWord {

// Method to split the string and find the largest and smallest word

**static** **void** printLargestAndSmallestWord(String str){

String[] arr=str.split(" ");

**int** i=0;

**int** maxlength,minlength;

maxlength=Integer.***MIN\_VALUE***;

minlength=Integer.***MAX\_VALUE***;

String largest,smallest;

largest = smallest = "";

**for**(i=0;i<arr.length;i++){

**if**(arr[i].length() < minlength){

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

**public** **static** **void** main(String[] args) {

BufferedReader br = **new** BufferedReader(**new** InputStreamReader(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**

**A screenshot of a social media post

Description automatically generated**