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Roll No:-508
Practical Name:-Confliction Algorithm


```java
import java.io.File;
import java.io.BufferedReader;
import java.io.BufferedWriter;
import java.io.FileNotFoundException;
import java.io.FileReader;
import java.io.FileWriter;
import java.io.IOException;
import java.util.Scanner;
public class Conflation
{
public static void main(String[] args) throws IOException
{
try
{
File fi=new File("System.txt");
Scanner sc1=new Scanner(new File("System.txt"));
int ch,i,ans;
do
{
System.out.println("1. Display the file");
System.out.println("2. Remove Stop Words");
System.out.println("3.Suffix Stripping");
System.out.println("4. Count Frequency");
System.out.println("Enter your choice");
Scanner sc=new Scanner(System.in);
ch=sc.nextInt();
switch(ch)
{
case 1:
while(sc1.hasNext())
{
System.out.print(sc1.next()+" ");
}
```

```java
System.out.println(" ");
break;
case 2:
remove_punctutaion(fi);
//remove_stop_words(fi);
break;
case 3:
suffix_stripping();
break;
case 4:
frequency_count();
break;
}
}while(ch!=4);
}catch (FileNotFoundException e)
{
System.out.println(e);
}
}
private static void remove_punctutaion(File fi)
{
try {
Scanner sc_punctuation=new Scanner(fi);
BufferedWriter out = new BufferedWriter(
new FileWriter("without_punctuation_and_stopwords.txt"));
while(sc_punctuation.hasNext())
{
String str_p=sc_punctuation.next();
String str_r=str_p.replaceAll("[^a-zA-Z\\s]", "");
if (!str_r.toLowerCase().equals("the") && !
str_r.toLowerCase().equals("is") &&
!str_r.toLowerCase().equals("and") && !
str_r.toLowerCase().equals("of") &&
!str_r.toLowerCase().equals("are") && !
str_r.toLowerCase().equals("for") &&
!str_r.toLowerCase().equals("in"))
{
out.write(str_r+" ");
}
```

```java
        }
        out.close();
        System.out.println("File after punctuation and stopwords:");
        File testfile = new
File("without_punctuation_and_stopwords.txt");
            BufferedReader br= new BufferedReader(new
FileReader(testfile));
            String z;
            while ((z = br.readLine()) != null)
             System.out.println(z);
            br.close();
        }
        catch (IOException e) {
        System.out.println("exception occurred" + e);
        }
        }
        private static void suffix_stripping() throws
FileNotFoundException,IOException
        {
        Scanner sc1=new Scanner(new
File("without_punctuation_and_stopwords.txt"));
        BufferedWriter out = new BufferedWriter(
        new FileWriter("suffix_stripping2.txt"));
        while (sc1.hasNext())
        {
        String str=sc1.next();
        str=str+"/";
        if(str.endsWith("ier/"))
        {
        str=str.replaceAll("ier/", "y");
        }
        else if (str.endsWith("ied/"))
        {
        str=str.replaceAll("ied/", "y");
        }
        else if (str.endsWith("iage/"))
        {
        str=str.replaceAll("iage/", "y");
        }
```

```java
else if (str.endsWith("iest/"))
{
str=str.replaceAll("iest/", "y");
}
else if (str.endsWith("ies/"))
{
str=str.replaceAll("ies/", "y");
}
else if (str.endsWith("iful/"))
{
str=str.replaceAll("iful/", "y");
}
else if (str.endsWith("ify/"))
{
str=str.replaceAll("ify/", "y");
}
else if (str.endsWith("iness/"))
{
str=str.replaceAll("iness/", "y");
}
else if (str.endsWith("ness/"))
{
str=str.replaceAll("ness/", "y");
}
else if (str.endsWith("ily/"))
{
str=str.replaceAll("ily/", "y");
}
else if (str.endsWith("yer/"))
{
str=str.replaceAll("yer/", "y");
}
else if (str.endsWith("ying/"))
{
str=str.replaceAll("ying/", "y");
}
else if (str.endsWith("ys/"))
{
str=str.replaceAll("ys/", "y");
```

```java
}
else if (str.endsWith("yable/"))
{
str=str.replaceAll("yable/", "y");
}
else if (str.endsWith("yful"))
{
str=str.replaceAll("yful", "y");
}
else if (str.endsWith("al/"))
{
str=str.replaceAll("al/", "y");
}
else if (str.endsWith("ly/"))
{
if(str.endsWith("ely/"))
{
str=str.replaceAll("ely/", "e");
}
else
{
str=str.replaceAll("ly/", "");
}
}
else if (str.endsWith("ing/"))
{
str=str.replaceAll("ing/", "y");
}
else if (str.endsWith("ed/"))
{
str=str.replaceAll("ed/", "y");
}
else if (str.endsWith("es/"))
{
str=str.replaceAll("es/", "y");
}
else if (str.endsWith("es/"))
{
str=str.replaceAll("es/", "y");
```

```java
}
else if (str.endsWith("s/"))
{
str=str.replaceAll("s/", " ");
}
else if (str.endsWith("is/"))
{
str=str.replaceAll("is", "y");
}
else if (str.endsWith("ment/"))
{
str=str.replaceAll("ment/", " ");
}
else if (str.endsWith("eing/"))
{
str=str.replaceAll("eing/", " ");
}
else if (str.endsWith("led/"))
{
str=str.replaceAll("led/", " ");
}
else if (str.endsWith("lex/"))
{
str=str.replaceAll("lex/", " ");
}
else if (str.endsWith("ling/"))
{
str=str.replaceAll("ling/", " ");
}
str=str.replace("/", " ");
out.write(str+" ");
}
out.close();
sc1.close();
System.out.println("File after suffix Stripping:");
File testfile = new File("suffix_stripping2.txt");
BufferedReader br= new BufferedReader(new FileReader(testfile));
String z;
while ((z = br.readLine()) != null)
```

```java
System.out.println(z);
br.close();
}
private static void frequency_count() throws
FileNotFoundException,IOException
{
Scanner sc3=new Scanner(new File("suffix_stripping2.txt"));
int flag=0,i=0,l=0,ct=0,flag_w=0;
String w[]=new String[1000];
int cnt[]=new int[1000];
while(sc3.hasNext())
{
w[i]=sc3.next();
i++;
}
sc3.reset();
Scanner sc5=new Scanner(new File("suffix_stripping2.txt"));
while (sc5.hasNext())
{
String str1=sc5.next();
for(int j=0;j<i;j++)
{
if(str1.equalsIgnoreCase(w[j]))
{
flag=1;
cnt[j]++;
}
}
if(flag==0)
{
w[i]=str1;
cnt[i]=1;
i++;
}
}
for(int j=0;j<i;j++)
{
for(int k=j+1;k<i;k++)
{
```

```java
if(w[j].equalsIgnoreCase(w[k]))
{
flag_w=0;
break;
}
else
{
flag_w=1;
}
}
if(flag_w==1)
{
System.out.println(w[j]+"."+cnt[j]+" ");
}
}
}
}
```

OUTPUT:-
itpc@itpc-HP-EliteDesk-800-G2-SFF:~$ javac Conflation.java
itpc@itpc-HP-EliteDesk-800-G2-SFF:~$ java Conflation
1. Display the file
2. Remove Stop Words
3.Suffix Stripping
4. Count Frequency
Enter your choice
1
12 Must Read Moral stories for kids + Tips to improve Story
time: A story is a great way to get your kids engaged. Probably
one of the clearest memories of your childhood is that of the
stories you read as a child. Most of the stories of your
childhood were probably stories with morals. These are not the
kind of stories we see very often these days. Wouldn't it be
amazing to share these stories with your child? Why not start
with this list that we have put together for you. This post
covers a list of 12 moral stories for kids in English and we

also cover why these stories help your child inculcate moral
values.
1. Display the file
2. Remove Stop Words
3.Suffix Stripping
4. Count Frequency
Enter your choice
2
File after punctuation and stopwords:
 Must Read Moral stories kids Tips to improve Story time A
story a great way to get your kids engaged Probably one clearest
memories your childhood that stories you read as a child Most
stories your childhood were probably stories with morals These
not kind stories we see very often these days Wouldnt it be
amazing to share these stories with your child Why not start
with this list that we have put together you This post covers a
list moral stories kids English we also cover why these stories
help your child inculcate moral values
1. Display the file
2. Remove Stop Words
3.Suffix Stripping
4. Count Frequency
Enter your choice
3
File after suffix Stripping:
Must Read Mory story kid Tip to improve Story time A
story a great way to get your kid engagy Probab one
clearest memory your childhood that story you read a a
child Most story your childhood were probab story with
moral These not kind story we see very often these day
Wouldnt it be amazy to share these story with your child
 Why not start with thi list that we have put together
 you Thi post cover a list mory story kid English we
also cover why these story help your child inculcate
mory valuy
1. Display the file
2. Remove Stop Words
3.Suffix Stripping
4. Count Frequency

Enter your choice
4
Must.1
Tip.1
improve.1
time.1
great.1
way.1
get.1
engagy.1
one.1
clearest.1
memory.1
read.2
Most.1
childhood.2
were.1
probab.2
moral.1
kind.1
see.1
very.1
often.1
day.1
Wouldnt.1
it.1
be.1
amazy.1
to.3
share.1
not.2
start.1
with.3
that.2
have.1
put.1
together.1
you.2
Thi.2

post.1
a.5
list.2
kid.3
English.1
we.3
also.1
cover.2
why.2
these.4
story.10
help.1
your.5
child.3
inculcate.1
mory.3
valuy.1