

## WEEK 5:

ROLL NO: 230701300

### PROGRAM 1:

```
import java.util.*;

class str{

    public static void main(String[] args) {

        Scanner scan = new Scanner(System.in);

        String sentence = scan.nextLine();

        String[] words = sentence.split(" ");

        for (String word : words) {

            if (word.length() % 2 == 0) {

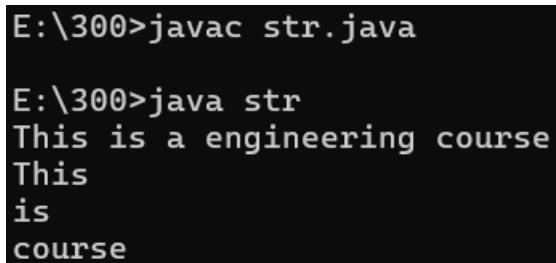
                System.out.println(word);

            }

        }

    }

}
```



```
E:\300>javac str.java

E:\300>java str
This
is
course
```

### PROGRAM 2

```
import java.util.Scanner;

public class capital{

    public static void main(String[] args) {

        Scanner scan = new Scanner(System.in);

        String s = scan.nextLine();
```

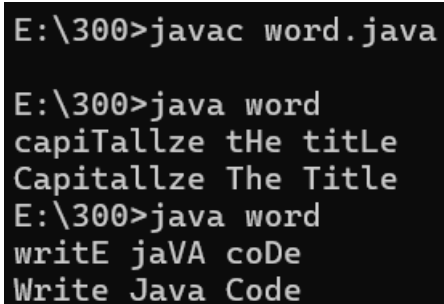
```

String[] words = s.split(" ");

for (int i = 0; i < words.length; i++) {
    String word = words[i];
    System.out.print(word.substring(0, 1).toUpperCase() + word.substring(1).toLowerCase() + " ");
}
}
}

```

OUTPUT



```

E:\300>javac word.java

E:\300>java word
capiTallze tHe titLe
CapitalIze The Title
E:\300>java word
writE jaVA coDe
Write Java Code

```

PROGRAM 3

```

import java.util.Scanner;

public class longsuffiX{
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);

        int n = scanner.nextInt();
        scanner.nextLine();

        String[] strS = new String[n];
        for (int i = 0; i < n; i++) {
            strS[i] = scanner.nextLine();
        }
    }
}

```

```
String suffix = longestCommonSuffix(strs);
```

```
System.out.println(suffix.isEmpty() ? "No common suffix": suffix);
```

```
}
```

```
public static String longestCommonSuffix(String[] strs) {
```

```
String suffix = strs[0];
```

```
for (int i = 1; i < strs.length; i++) {
```

```
suffix = findCommonSuffix(suffix, strs[i]);
```

```
if (suffix.isEmpty()) {
```

```
return "";
```

```
}
```

```
}
```

```
return suffix;
```

```
}
```

```
public static String findCommonSuffix(String s1, String s2) {
```

```
int len1 = s1.length();
```

```
int len2 = s2.length();
```

```
int i = len1 - 1;
```

```
int j = len2 - 1;
```

```
String result = "";
```

```
while (i >= 0 && j >= 0 && s1.charAt(i) == s2.charAt(j)) {
```

```
result = s1.charAt(i) + result;
```

```
i--;
```

```
j--;
```

```
}
```

```
return result;
```

```
}
```

```
}
```

```
D:\300>javac Longsuffix.java
```

```
D:\300>java Longsuffix
```

```
3
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singing
```

```
dancing
```

```
ing
```

#### PROGRAM 4

```
import java.util.*;
```

```
class sb{
```

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

```
StringBuffer s = new StringBuffer("Rajalakshmi");
```

```
System.out.println(s);
```

```
s.append("College,Kanchipuram");
```

```
System.out.println(s);
```

```
s.insert(11,"Engineering");
```

```
System.out.println(s);
```

```
int si = s.indexOf("Kanchipuram");
```

```
int ei = si+"Kanchipuram".length();
```

```
s.replace(si,ei,"Chennai");
```

```
si = s.indexOf("Chennai");
```

```
System.out.println(s);
```

```
ei = si+"Chennai".length();
```

```
s.delete(si,ei);
```

```
System.out.println(s);
```

```
s.reverse();
```

```
System.out.println(s);
```

```
}
```

```
}
```

```
D:\300>javac sb.java
```

```
D:\300>java sb
```

```
Rajalakshmi
```

```
RajalakshmiCollege,Kanchipuram
```

```
RajalakshmiEngineeringCollege,Kanchipuram
```

```
RajalakshmiEngineeringCollege,Chennai
```

```
RajalakshmiEngineeringCollege,
```

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```

```
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```