BUBT

BANGLADESH UNIVERSITY OF BUSINESS AND TECHNOLOGY

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Lab Final Exam Answer Sheet

Course Code: CSE 332

Course Title: Advanced Programming

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Semester: Summer 2020</td></tr>
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Problem -1

Source code:

```java
package LabFinalExam;
import java.util.Scanner;

public class Problem1 {
public static String para;
public static int len = 0, number = 1;

public static void countWord(){
System.out.println("Para: "+para);
len = para.length();
System.out.println("Length: "+len);
for(int i=0; i<para.length(); i++){
if(para.charAt(i) == ' '){
number++;
}}}
public static void getOccurance(){
System.out.println("getOccurance");
int[] occurance = new int[number];
for(int i=0; i<number; i++){
occurance[i] = 0; }
String tempPara[] = para.split(" ");
System.out.println("TempPara Length is: "+tempPara.length);
for(int i=0; i<tempPara.length; i++){
String wrd = tempPara[i];
```
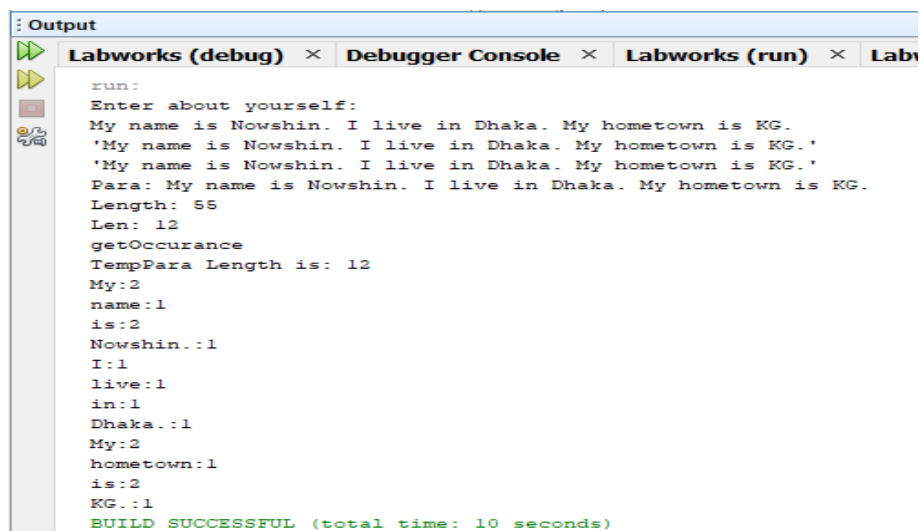
```java
for(int j=0; j<tempPara.length; j++){

if(wrd.equals(tempPara[j])){

occurance[i]++;  } } }

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

System.out.println(tempPara[i] +":"+ occurance[i]);

} }

public static void main(String[] args) {

Scanner scn = new Scanner(System.in);

System.out.println("Enter about yourself: ");

para = scn.nextLine();

System.out.println("\""+para+"\"");

para = para.trim();

System.out.println("\""+para+"\"");

countWord();

System.out.println("Len: "+number);

getOccurance(); } }
```

Output:

Problem-2

Source Code:

```java
package LabFinalExam;

/**
 *
 * @author Syeda Nowshin Ibnat
 */
public class Problem2 {
public static void methodZ(){
System.out.println("Method 'Z' throws NumberFormatException.");
throw new NumberFormatException(); }
public static void methodY(){
System.out.println("Method 'Y' throws NullPointerException.");
methodZ();
throw new NullPointerException(); }
public static void methodX(){
System.out.println("Method 'X' throws IndexOutOfBoundsException.");
methodY();
throw new IndexOutOfBoundsException(); }
public static void main(String[] args) {
try{
methodX(); }
catch(Exception e){
System.out.println("\nException: "+e);
```
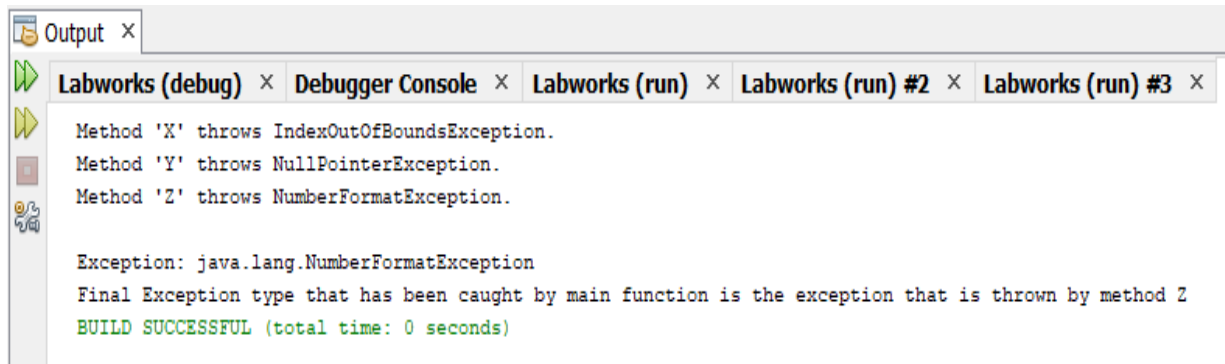
```
System.out.println("Final Exception type that has been caught by main
function is the exception that is thrown by method Z");

        }

    }

}
```

Output:

```
Output ×

Labworks (debug) ×  Debugger Console ×  Labworks (run) ×  Labworks (run) #2 ×  Labworks (run) #3 ×

    Method 'X' throws IndexOutOfBoundsException.
    Method 'Y' throws NullPointerException.
    Method 'Z' throws NumberFormatException.

    Exception: java.lang.NumberFormatException
    Final Exception type that has been caught by main function is the exception that is thrown by method Z
    BUILD SUCCESSFUL (total time: 0 seconds)
```