

Problem 1: Write a Java program usage of charAt(), concat(), contains(), equals(), and indexOf() functions.

```

J labreport1.java X J labreport2.java J Labreport3.java
J labreport1.java > labreport1 > main(String[])
1 import java.util.Scanner;
2
3 public class labreport1 {
4     public static void main(String[] args) {
5         Scanner in = new Scanner(System.in);
6
7         System.out.print(s:"Enter a string: ");
8         String str = in.nextLine();
9
10        if (!str.isEmpty()) {
11            System.out.println("First character: " + str.charAt(index:0));
12        } else {
13            System.out.println(x:"String is empty, cannot get first character.");
14        }
15
16        System.out.println("Concatenated with ID: " + str.concat(str:" 241311069");
17        System.out.println("Contains 'Batch': " + str.contains(s:"Batch"));
18        System.out.println("Equals '34th': " + str.equals(anObject:"34th"));
19        System.out.println("Index of 'B': " + str.indexOf(ch:"B"));
20
21        in.close();
22    }
23 }

```

```

PS E:\@CODES\Academic\Java> ^C
PS E:\@CODES\Academic\Java>
PS E:\@CODES\Academic\Java> e;; cd 'e:\@CODES\Academic\Java';
& 'C:\Program Files\Eclipse Adoptium\jdk-17.0.13.11-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\sobha\AppData\Roaming\Code\User\workspaceStorage\af2fb4058883644b9dc15b94d03a950a\redhat.java\jdt_ws\Java_7a63c8db\bin\' 'labreport1'
Enter a string: Sobhan here, From 34th Section B
First character: S
Concatenated with ID: Sobhan here, From 34th Section B 241311069
Contains 'Batch': false
Equals '34th': false
Index of 'B': 31
PS E:\@CODES\Academic\Java>

```

Problem 2: Write a Java program usage of isEmpty(), replace(), split(), and trim() functions.

```

J labreport1.java J labreport2.java X J Labreport3.java
J labreport2.java > labreport2
1 import java.util.Scanner;
2
3 public class labreport2 {
4     public static void main(String[] args) {
5         Scanner in = new Scanner(System.in);
6
7         System.out.print(s:"Enter another string: ");
8         String str = in.nextLine();
9
10        System.out.println("Is empty: " + str.isEmpty());
11        System.out.println("Replacing '3' with 'X': " + str.replace(oldChar:'3',
12
13        String[] words = str.split(regex:" ");
14        System.out.println(x:"Words in string:");
15        for (int i = 0; i < words.length; i++) {
16            System.out.println(words[i]);
17        }
18
19        System.out.println("Trimmed string: " + str.trim());
20
21        in.close();
22    }
23 }

```

```

PS E:\@CODES\Academic\Java> ^C
PS E:\@CODES\Academic\Java>
PS E:\@CODES\Academic\Java> e;; cd 'e:\@CODES\Academic\Java';
& 'C:\Program Files\Eclipse Adoptium\jdk-17.0.13.11-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\sobha\AppData\Roaming\Code\User\workspaceStorage\af2fb4058883644b9dc15b94d03a950a\redhat.java\jdt_ws\Java_7a63c8db\bin\' 'labreport2'
Enter another string: 34th B is Pro/
Is empty: false
Replacing '3' with 'X': X4th B is Pro/
Words in string:
34th
B
is
Pro/
Trimmed string: 34th B is Pro/
PS E:\@CODES\Academic\Java>

```

Problem 3: Write a Java program to print (1-10) except 5.

```

J labreport1.java J labreport2.java J Labreport3.java X
J Labreport3.java > Labreport3 > main(String[])
1 public class Labreport3 {
2     public static void main(String[] args){
3         for(int i=1; i<=10; i++){
4             if(i==5){
5                 continue;
6             }
7             System.out.println(i+ " ");
8         }
9     }
10 }
11

```

```

PS E:\@CODES\Academic\Java> ^C
PS E:\@CODES\Academic\Java>
PS E:\@CODES\Academic\Java> e;; cd 'e:\@CODES\Academic\Java';
& 'C:\Program Files\Eclipse Adoptium\jdk-17.0.13.11-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\sobha\AppData\Roaming\Code\User\workspaceStorage\af2fb4058883644b9dc15b94d03a950a\redhat.java\jdt_ws\Java_7a63c8db\bin\' 'Labreport3'
1
2
3
4
5
6
7
8
9
10
PS E:\@CODES\Academic\Java>

```