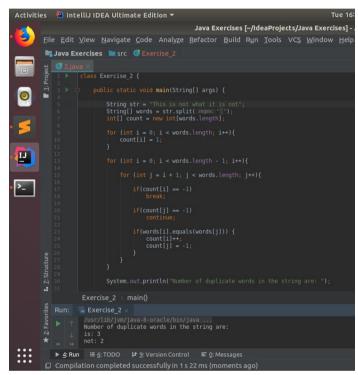
```
Q1. Write a program to replace a substring inside a string with other string?
A1.
1.java
class Exercise_1 {
   public static void main(String[] args) {
      String str = "This is what it is.";
      str = str.replace("is", "is not");
      System.out.println(str);
   }
}
                                                       Java Exercises [~/IdeaProjects/Java Exercises] - .../src/1.java [Java Exercises
                             <u>E</u>dit <u>V</u>iew <u>N</u>avigate <u>C</u>ode Analy<u>z</u>e <u>R</u>efactor <u>B</u>uild <u>Run <u>T</u>ools VC<u>S <u>W</u>indow <u>H</u>elp</u></u>
Q2. Write a program to find the number of occurrences of the duplicate words in a string and print
them?
A2.
2.java
import java.util.Scanner;
class Exercise_2 {
   public static void main(String[] args) {
      Scanner sc = new Scanner(System.in);
      String str = sc.nextLine();
      String[] words = str.split(" ");
      int[] count = new int[words.length];
      System.out.println("Number of duplicate words in the string are: ");
      for (int i = 0; i < words.length - 1; i++) {
         count[i] = 1;
         for (int j = i + 1; j < words.length; j++) {
            if (count[i] == -1)
               break;
           if (count[j] == -1)
```

```
continue;

if (words[i].equals(words[j])) {
        count[i]++;
        count[j] = -1;
     }

if (count[i] > 1)
     System.out.println(words[i] + ": " + count[i]);
}
}
```



Q3. Write a program to find the number of occurrences of a character in a string without using loop? A3. 3.java

```
import java.util.Scanner;
```

```
class Exercise_3 {
  public static void main(String[] args) {
    Scanner sc = new Scanner(System.in);
    String str = sc.nextLine();
    char c = sc.next().charAt(0);
    int len_w_char = str.length();
    int len_wo_char = str.replace(Character.toString(c), "").length();
    int count = len_w_char - len_wo_char;
```

System.out.println("Number of occurences of "" + c + "" in the string are: " + count); }

```
Activities  Intellij IDEA Ultimate Edition  

Java Exercises [-/IdeaProjects/Java Exercises] - .../src/3.java [Java Exercises]

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

Java Exercises  src  Exercise_3  

Java Exercises  src  Exercise_3  

Java Exercises  inport java.util.Scanner;

class Exercise  3  

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

String str = sc.nextLine();

char c = sc.next().charAt(0);

int len w char = str.length();

int len w char = str.length();

int len w char = str.replace(Character.toString(c), replacement: ").length();

int count = len_w char - len_w char;

System.out.println("Number of occurences of '" + c + "' in the string are: " + count);

Run: Exercise_3  

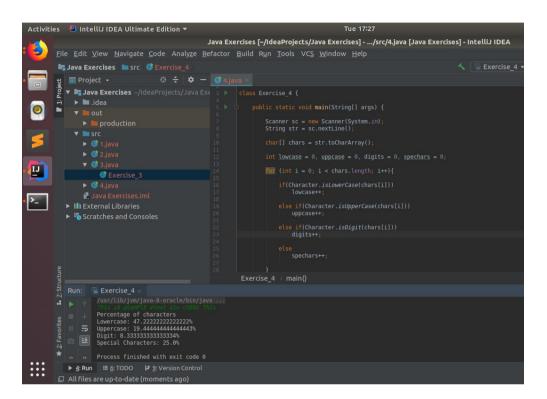
//Usr/Lib/jvm/java-8-oracle/bin/java ...

Number of occurences of 'i' in the string are: 4

Process finished with exit code 0
```

Q4. Calculate the number & Percentage Of Lowercase Letters, Uppercase Letters, Digits And Other Special Characters In A String

```
A4.
4.java
import java.util.Scanner;
class Exercise_4 {
  public static void main(String[] args) {
     Scanner sc = new Scanner(System.in);
     String str = sc.nextLine();
     char[] chars = str.toCharArray();
     int lowcase = 0, uppcase = 0, digits = 0, spechars = 0;
     for (int i = 0; i < chars.length; i++){
       if(Character.isLowerCase(chars[i]))
          lowcase++;
       else if(Character.isUpperCase(chars[i]))
          uppcase++;
       else if(Character.isDigit(chars[i]))
          digits++;
       else
          spechars++;
```



```
Q5. Find common elements between two arrays.
A5.
5.java

import java.util.ArrayList;
import java.util.Scanner;

class Exercise_5 {

  public static void main(String[] args) {

    Scanner sc = new Scanner(System.in);

    System.out.println("Enter the sizes of the array (n1, n2):");
    int n1 = sc.nextInt(), n2 = sc.nextInt();

  int arr1[] = new int[n1], arr2[] = new int[n2];
    ArrayList<Integer> commonele = new ArrayList<>();

    System.out.println("Enter first array: ");
    for (int i = 0; i < n1; i++)
```

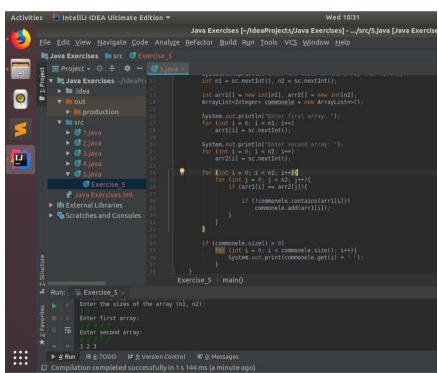
```
arr1[i] = sc.nextInt();

System.out.println("Enter second array: ");
for (int i = 0; i < n2; i++)
    arr2[i] = sc.nextInt();

for (int i = 0; i < n1; i++){
    for (int j = 0; j < n2; j++){
        if (arr1[i] == arr2[j]){

        if (!commonele.contains(arr1[i]))
            commonele.add(arr1[i]);
        }
    }
}

if (commonele.size() > 0)
    for (int i = 0; i < commonele.size(); i++){
        System.out.print(commonele.get(i) + " ");
    }
}</pre>
```

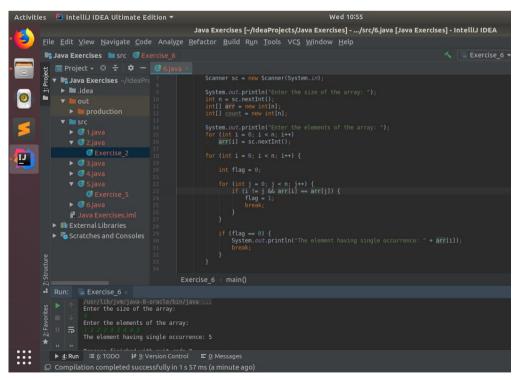


Q6. There is an array with every element repeated twice except one. Find that element A6.

```
6.java
import java.util.Scanner;

class Exercise_6 {
   public static void main(String[] args) {
```

```
Scanner sc = new Scanner(System.in);
     System.out.println("Enter the size of the array: ");
     int n = sc.nextInt();
     int[] arr = new int[n];
     int[] count = new int[n];
     System.out.println("Enter the elements of the array: ");
     for (int i = 0; i < n; i++)
       arr[i] = sc.nextInt();
     for (int i = 0; i < n; i++) {
       int flag = 0;
       for (int j = 0; j < n; j++) {
          if (i != j && arr[i] == arr[j]) {
             flag = 1;
             break;
          }
        }
       if (flag == 0) {
          System.out.println("The element having single occurrence: " + arr[i]);
     }
  }
}
```



```
Q7. Write a program to print your Firstname, LastName & age using static block, static method &
static variable respectively
A7.
7.java
class Exercise_7 {
  static String blockFirstName;
  static String blockLastName;
  static int blockAge;
  static String varFirstName = "Sunil";
  static String varLastName = "Pal";
  static int varAge = 49;
  static{
     blockFirstName= "Rajeev";
     blockLastName = "Nigam";
     blockAge = 50;
  static void printinfo(){
     System.out.println("\nStatic Method");
     System.out.println("First Name: " + "Raju" + "\nLast Name: " + "Srivastava" + "\nAge: " + 48);
  }
  public static void main(String[] args) {
     System.out.println("Static Block");
     System.out.println("First Name: " + blockFirstName + "\nLast Name: " + blockLastName + "\
nAge: " + blockAge);
     printinfo();
     System.out.println("\nStatic Variables");
     System.out.println("First Name: " + varFirstName + "\nLast Name: " + varLastName + "\nAge:
" + varAge);
  }
}
 Activities 🛛 IntelliJ IDEA Ultimate Edition 🔻
                               Java Exercises [~/IdeaProjects/Java Exercises] - .../src/7.java [Java Exercises] - IntelliJ IDEA
```

```
Run: Exercise 7 ×

// usr/lib/jum/java-8-oracle/bin/java ...

Static Block
Static Block
Last Name: Nigam
Age: 50

Static Method
First Name: Srivastava
Age: 48

Static Method
First Name: Srivastava
Age: 49

Process finished with exit code 0
```

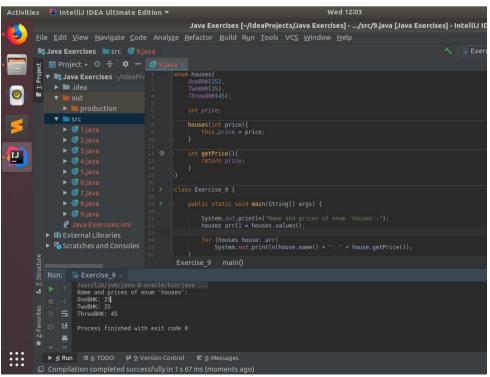
Q8. Write a program to reverse a string and remove character from index 4 to index 9 from the reversed string using String Buffer A8.

```
8.java
import java.util.Scanner;

class Exercise_8 {
   public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the string: ");
        StringBuffer str = new StringBuffer(sc.nextLine());
        str = str.reverse().delete(4, 9);
        System.out.println("Formatted string is: \n" + str);
    }
}
```

}

```
Q9. Write a program to display values of enums using a constructor & getPrice() method (Example
display house & their prices)
A9.
9.java
enum houses{
  OneBHK(25),
  TwoBHK(35),
  ThreeBHK(45);
  int price;
  houses(int price){
    this.price = price;
  int getPrice(){
    return price;
}
class Exercise_9 {
  public static void main(String[] args) {
     System.out.println("Name and prices of enum 'houses':");
    houses arr[] = houses.values();
    for (houses house: arr)
       System.out.println(house.name() + ": " + house.getPrice());
}
```



```
Q10. Write a single program for following operation using overloading
 A) Adding 2 integer number
 B) Adding 2 double
 C) multiplying 2 float
 D) multiplying 2 int
 E) concate 2 string
 F) Concate 3 String
A10.
10.java
class Exercise_10 {
  static int add(int a, int b){return a + b;}
  static double add(double a, double b){return a + b;}
  static float multiply(float a, float b){return a * b;}
  static int multiply(int a, int b){return a * b;}
  static String concat(String a, String b){return a + b;}
  static String concat(String a, String b, String c){return a + b + c;}
  public static void main(String[] args) {
     System.out.println(add(20, 30));
     System.out.println(add(25.5, 31.1));
     System.out.println(multiply(2, 3));
    System.out.println(multiply(22.7f, 31.1f));
    System.out.println(concat("abc", "def"));
    System.out.println(concat("abc", "def", "ghi"));
}
```

```
Q11.Create 3 sub class of bank SBI,BOI,ICICI all 4 should have method called getDetails which
provide there specific details like rateofinterest etc, print details of every banks
A11.
11.java
class Bank {
  String name;
  double roi;
  Bank(String name, double roi){
     this.name = name;
     this.roi = roi;
  }
  void getDetails(){
     System.out.println("Name of the bank: " + name);
     System.out.println("ROI of the bank: " + roi);
  }
}
class SBI extends Bank{
  SBI(){
     super("SBI", 6.0);
  }
class BOI extends Bank{
  BOI(){
     super("BOI", 5.5);
class ICICI extends Bank{
  ICICI(){
     super("ICICI", 7.0);
}
class Exercise_11{
  public static void main(String[] args) {
     SBI sbi = new SBI();
     BOI boi = new BOI();
     ICICI icici = new ICICI();
     System.out.println("Calling getDetails() of SBI class object...");
     sbi.getDetails();
```

System.out.println("Calling getDetails() of BOI class object...");

```
boi.getDetails();
    System.out.println("Calling getDetails() of ICICI class object...");
    icici.getDetails();
}
```

```
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         <u>F</u>ile <u>E</u>dit <u>V</u>iew <u>N</u>avigate <u>C</u>ode Analy<u>z</u>e <u>R</u>efactor <u>B</u>uild R<u>u</u>n <u>T</u>ools VC<u>S</u> <u>W</u>indow <u>H</u>elp
                                                                                                                                            <u>F</u>ile <u>E</u>dit <u>V</u>iew <u>N</u>avigate <u>C</u>ode Analy<u>z</u>e <u>R</u>efactor <u>B</u>uild <u>Run T</u>ools VC<u>S</u> <u>W</u>indow <u>H</u>elp
                          ass Bank {
                           String name
                                                                                                                                    0
                            void getDetails(){
    System.out.println("Name of the bank: " + name)
    System.out.println("ROI of the bank: " + roi);
                                                                                                                                   ī
'n
                                                                                                                                                          class Exercise 11{
                                                                                                                                                              public static void main(String[] args) {
   SBI sbi = new SBI();
   BOI boi = new BOI();
   ICICI icici = new ICICI();
                                                                                                                                                                    System.out.println("Calling getDetails() of SBI class object...");
sbi.qetDetails();
                                                                                                                                                                    System.out.println("Calling getDetails() of BOI class object...");
boi.getDetails();
                      class ICICI extends Bank{
```

