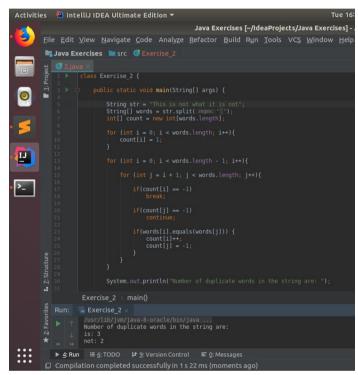
```
Q1. Write a program to replace a substring inside a string with other string?
A1.
1.java
class Exercise_1 {
   public static void main(String[] args) {
      String str = "This is what it is.";
      str = str.replace("is", "is not");
      System.out.println(str);
   }
}
                                                       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

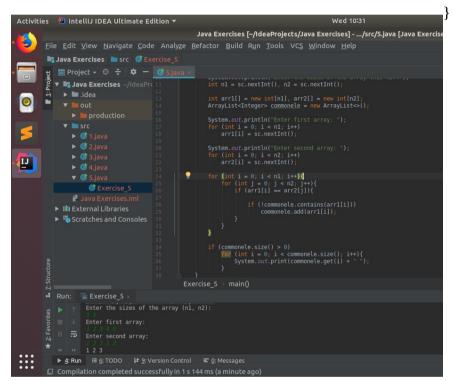
```
A4.
4.java
import java.util.Scanner;
class Exercise_4 {
  public static void main(String[] args) {
     Scanner sc = new Scanner(System.in);
     String str = sc.nextLine();
     char[] chars = str.toCharArray();
     int lowcase = 0, uppcase = 0, digits = 0, spechars = 0;
     for (int i = 0; i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

```
}
     System.out.println("Percentage of characters");
     System.out.println("Lowercase: " + (lowcase * 100.0 / chars.length) +
                   "%\nUppercase: " + (uppcase * 100.0 / chars.length) +
                   "%\nDigit: " + (digits * 100.0 / chars.length) +
                   "%\nSpecial Characters: " + (spechars * 100.0 / chars.length) + "%");
   }
}
                                              Java Exercises [~/IdeaProjects/Java Exercises] - .../src/4.java [Java Exercises] - IntelliJ IDEA
Q5. Find
common
elements
between
two arrays.
A5.
5.java
                                                          else if(Character.isUpperCase(chars[i]))
uppcase++:
                     ► IIII External Libraries
import
                     ▶ 4: Run : 6: TODO # 9: Version Contro
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 {

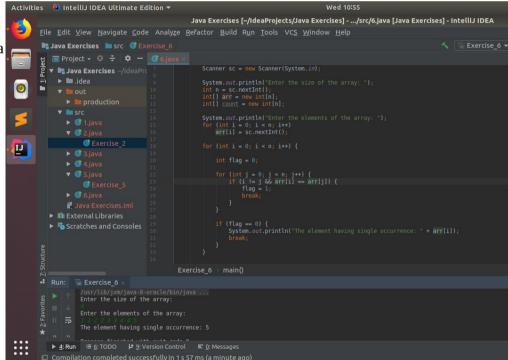
  public static void main(String[] args) {

    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]);
          break;
       }
     }
  }
}
```

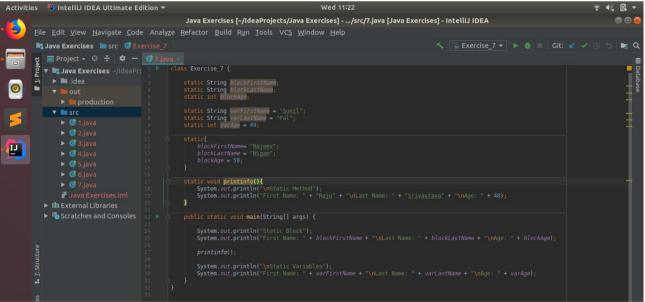
Q7. Write a program to print your

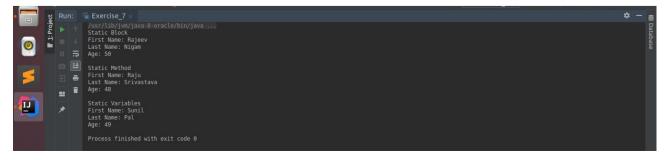


Firstname,LastName & age using static block,static method & static variable respectively A7.

```
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);
   }
}
         Intellia IDEA Ultimate Edition
       <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
```

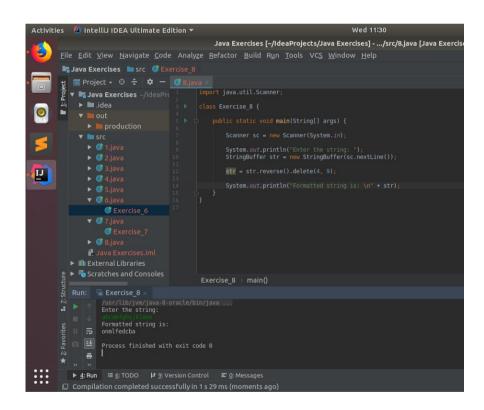




Q8. Write a program to reverse a string and remove character from index 4 to index 9 from the reversed string using String Buffer A8.

```
Ao.
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);
    }
}
```

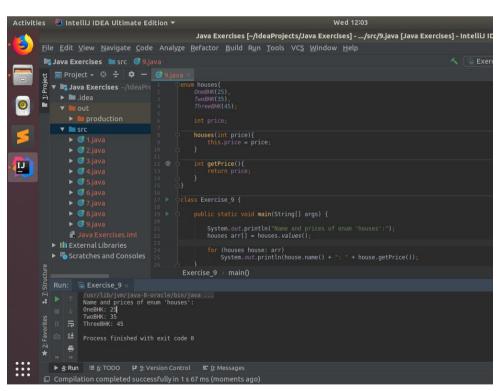


Q9.Write a program to display values of enums using a constructor & getPrice() method (Example display house & their prices) $\frac{1}{2}$

```
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"));
}
```

```
| Section | Sect
```

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();
```

}

