SESSION - 8 INTRODUCTION TO JAVA 1

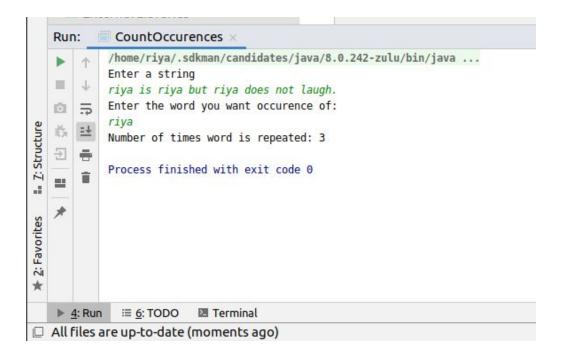
Q1. Write a program to replace a substring inside a string with other string?

```
■ Project ▼
                           public class StrReplace {
Assignment1 ~/IdeaProjects/Assignmen
  idea
                                                   public static void main(String[] args){
 out
                                                           String s = "Riya Gupta";
  ► src
                                                          System.out.print("string before replacement: ");
     Assignment1.iml
                                                           System.out.println(s);
                                                          System.out.print("string after replacement: ");
► III External Libraries
                                                          System.out.println(s.replace( target: "Ri", replacement: "Dee"));
  Scratches and Consoles
                                         10
                                         14
                                                StrReplace > main()
      StrReplace
        /home/riya/.sdkman/candidates/java/8.0.242-zulu/bin/java ...
        string before replacement: Riya Gupta
■ ↓
       string after replacement: Deeya Gupta
Process finished with exit code 0
```

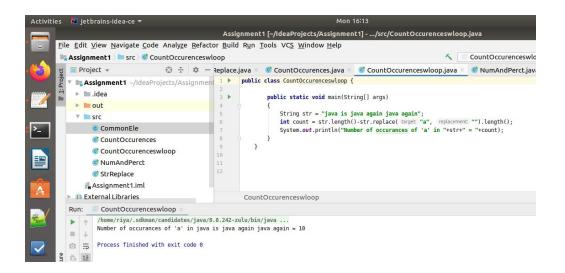
Q2. Write a program to find the number of occurrences of the duplicate words in a string and print them ?

```
}
return c;
}

public static void main(String[] args) {
    Scanner sc = new Scanner(System.in);
    System.out.println("Enter a string");
    String s = sc.nextLine();
    System.out.println("Enter the word you want occurence of: ");
    Scanner sc1 = new Scanner(System.in);
    String word = sc1.nextLine();
    System.out.println("Number of times word is repeated: "+count(s,word));
}
```



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



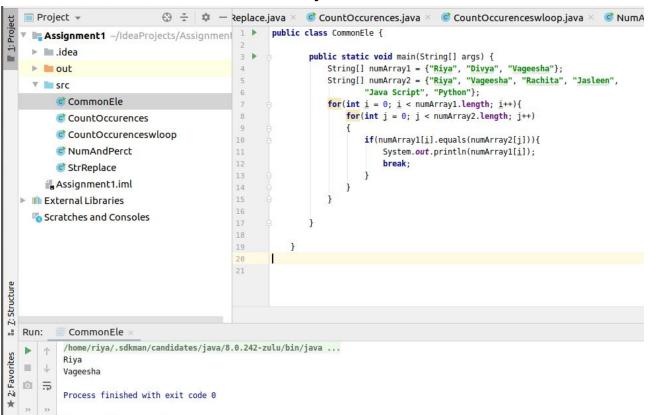
Q4. Calculate the number & Percentage Of Lowercase Letters, Uppercase Letters, Digits And Other Special Characters In A String.

```
public class NumAndPerct {
    //Calculate the number & Percentage Of Lowercase Letters, Uppercase Letters, Digits And Other Special Characters In A String.
```

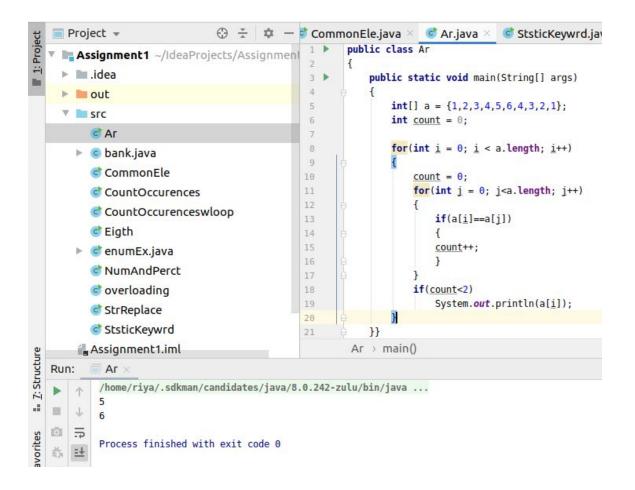
```
public static void main(String[] args) {
  String data = "Hello HOW are you MR 51";
  char [] charArray = data.toCharArray();
  int upper = 0;
 int lower = 0;
 int digit = 0;
  int others = 0;
 int totalChars = data.length();
  for(int i=0; i<data.length(); i++) {
    if (Character.isUpperCase(charArray[i])) {
       upper++;
    } else if(Character.isLowerCase(charArray[i])) {
       lower++;
    } else if(Character.isDigit(charArray[i])){
       digit++;
    } else {
       others++;
    }
  System.out.println("Total length of the string:"+totalChars);
  System.out.println("Upper case :"+upper);
  System.out.println("Percentage of upper case letters: "+(upper*100)/totalChars);
  System.out.println("Lower case:"+lower);
  System.out.println("Percentage of lower case letters:"+(lower*100)/totalChars);
  System.out.println("Digit:"+digit);
  System.out.println("Percentage of digits:"+(digit*100)/totalChars);
```

```
System.out.println("Others:"+others);
      System.out.println("Percentage of other characters:"+(others*100)/totalChars);
  }
}
   Run:
            NumAndPerct
            /home/riya/.sdkman/candidates/java/8.0.242-zulu/bin/java ...
            Total length of the string :23
   Upper case :6
           Percentage of upper case letters: 26
   0
           Lower case :10
   ij,
           Percentage of lower case letters:43
   \exists
           Digit :2
      =
            Percentage of digits :8
   ==
           Others :5
           Percentage of other characters :21
7: Structure
   *
           Process finished with exit code 0
.:
```

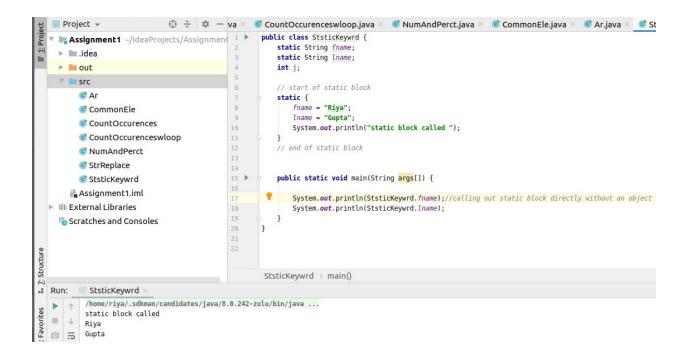
Q5. Find common elements between two arrays.



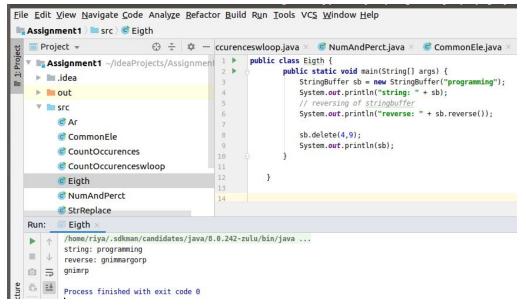
Q6. There is an array with every element repeated twice except one. Find that element.



Q7. Write a program to print your Firstname,LastName & age using static block,static method & static variable respectively.



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



Q9.Write a program to display values of enums using a constructor & getPrice() method (Example display house & their prices)

```
enum House {
    Noida(100000), Delhi(9200000), Shimla(5000000);
    private double hprice;
```

```
House(double pr)
   hprice = pr;
 double getPrice()
   return hprice;
 }
public class enumEx
 public static void main(String[] args)
   System.out.println("House List: ");
   for(House p : House.values()) System.out.println(p+" 's"+" price is "+p.getPrice()+ " INR");
 }
      Run:
                 enumEx ×
                /home/riya/.sdkman/candidates/java/8.0.242-zulu/bin/java ...
                House List:
      8
                Noida 's price is 100000.0 INR
                Delhi 's price is 9200000.0 INR
      Ö
  2: Favorites
                Shimla 's price is 5000000.0 INR
                Process finished with exit code 0
```

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

```
public class overloading
{
   public void sum(int x, int y)
   {
      System.out.println(x+y);
   }
   public void sum(double x, double y)
   {
      System.out.println(x+y);
   }
```

```
public void multiply(float x, float y)
 {
    System.out.println(x*y);
  public void multiply(int x, int y)
    System.out.println(x*y);
  public void concat(String a, String b)
    System.out.println(a+b);
  public void concat(String a, String b, String c)
    System.out.println(a+b+c);
  public static void main(String[] args)
    overloading o = new overloading();
    o.sum(2,3);
    o.sum(2354646,235465456);
    o.multiply(2.3f,4.8f);
    o.multiply(2,5);
    o.concat("hey","ho");
    o.concat("hey", "ho", "hello");
 }
}
            overloading ×
 Run:
           /home/riya/.sdkman/candidates/java/8.0.242-zulu/bin/java ...
          237820102
          11.04
 (Ö)
     ₽
          10
 葯
          heyho
          heyhohello
          Process finished with exit code 0
```

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.

```
public class bank
{
    //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.
    public void getDetails()
```

```
{
      System.out.println("Details of the bank: ");
    }
}
class SBI extends bank
  public void getDetails()
    String name = "SBI";
    int id = 1;
    String headquaters = "New Delhi";
    System.out.println("Name: "+ name+",ID: "+id+ ",Headquaters: "+headquaters);
 }
}
class ICICI extends bank
 public void getDetails()
    String name = "ICICI";
    int id = 2;
    String headquaters = "Mumbai";
    System.out.println("Name: "+ name+",ID: "+id+ ",Headquaters: "+headquaters);
 }
}
class BOI extends bank
 public void getDetails()
    String name = "Bank Of India";
    int id = 3;
    String headquaters = "Kolkata";
    System.out.println("Name: "+ name+", ID: "+id+ ", Headquaters: "+headquaters);
 }
class main{
public static void main(String[] args)
 bank b = new bank();
  bank b1 = new SBI();
  bank b2 = new ICICI();
  bank b3 = new BOI();
  b.getDetails();
  b1.getDetails();
  b2.getDetails();
 b3.getDetails();
}
```

