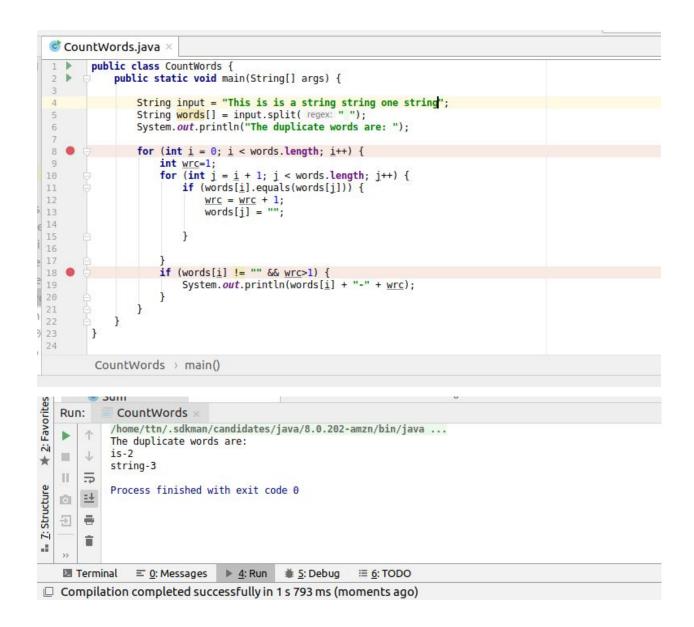
## **Japneet Kaur (Group-5)**

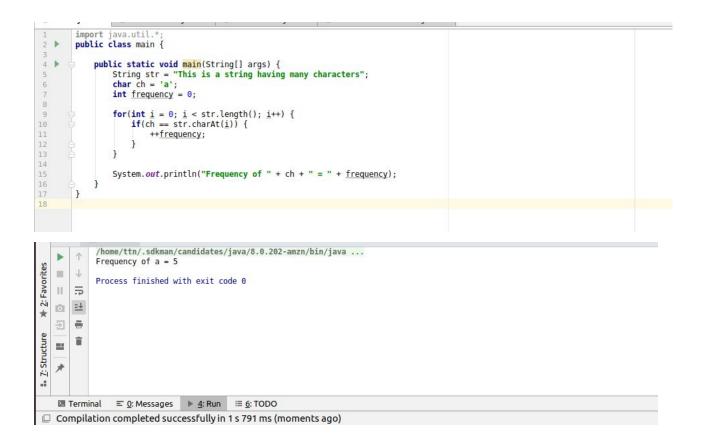
# Q1. Write a program to replace a substring inside a string with other string?



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



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



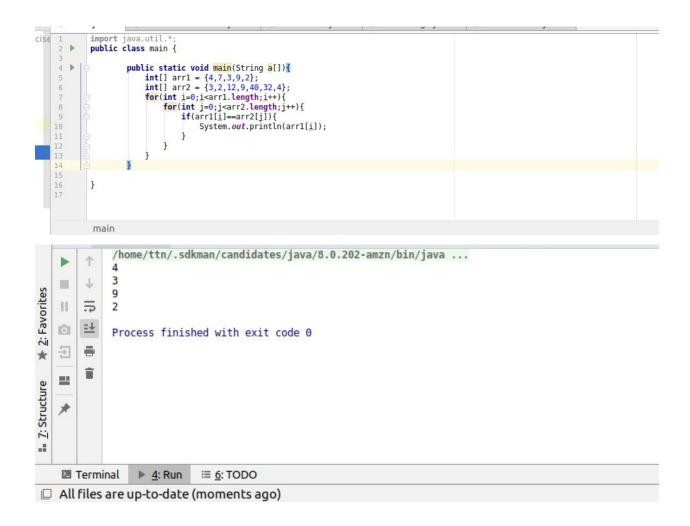
Q4. Calculate the number & Percentage Of Lowercase Letters, Uppercase Letters, Digits And Other Special Characters In A String

```
import java.util.*;
public class main {
                       public static void main(String args[]) {
 4 🅨
                             String data = "Hello HOW are you MR 51";
char [] charArray = data.toCharArray();
 6
                             int upper = 0;
                             int lower = 0;
                             int digit = 0;
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
                             int others = 0;
                             int totalChars = data.length();
for(int i=0; i<data.length(); i++) {</pre>
                                  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);
31
32
33
34
                             System.out.println("Percentage of other characters:"+(others*100)/totalChars+"%");
                       }
                 }
                   /home/ttn/.sdkman/candidates/java/8.0.202-amzn/bin/java ...
                   Total length of the string :23
                   Upper case :6
 ¥ 2: Favorites
      Ш
                   Percentage of upper case letters: 26%
      11
                   Lower case :10
           5
                   Percentage of lower case letters:43%
      Ō
                   Digit :2
                   Percentage of digits :8%
            ÷
                  Others :5
                  Percentage of other characters :21%
 . Z: Structure
      =
                   Process finished with exit code 0

☑ Terminal

                         <u>□</u>: Messages <u>▶</u> <u>4</u>: Run <u>≡</u> <u>6</u>: TODO
Compilation completed successfully in 1 s 737 ms (moments ago)
```

#### Q5. Find common elements between two arrays.



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

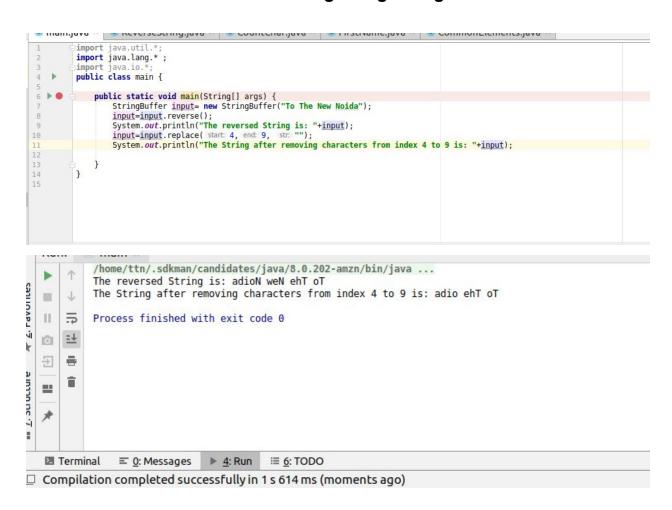


Q7. Write a program to print your Firstname,LastName & age using static block,static method & static variable respectively

```
main.java ×
                    FirstName.java ×
                                         CommonElements.java ×
                                                                       CountChar.java
                                                                                             Percer
           public class FIrstName {
ise
                   public static String firstname;
    3
                   static{
                       firstname="Japneet";
    4
    5
    6
                   static String lastname="Kaur";
                   static int age=21;
   8
   9
                   static void disp(){
                   System.out.println("Age is: "+age);
   10
   11
   12
           }
   13
   14
  FirstName.java ×
                                        © CountChar.java ×
                                                                                           © Percent
         import java.util.*;
 2
         public class main {
  3
 4
                     public static void main(String args[]) {
                        System.out.println("First Name: " + FIrstName.firstname);
System.out.println("Last Name: " + FIrstName.lastname);
  5
  6
                        FIrstName.disp();
  8
                     }
  9
        }
```



## 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)



Q10.Write a single program for following operation using overloading

- A) Adding 2 integer number
- B) Adding 2 double

```
public class Sum {
2
3 @ 4
5
6 @ 7
8 9 10
11
12
13
14
15
                   public static int sum(int x, int y){
                        return(x+y);
                   public statid double sum(double x, double y){
   return(x+y);
                  public static void main(String[] args) {
    System.out.println(sum( x: 2, y: 4));
    System.out.println(sum( x: 2.3, y: 4.5));
... Z: Structure ★ 2: Favorites
     Run:
                  /home/ttn/.sdkman/candidates/java/8.0.202-amzn/bin/java ...
      •
     =
                  6.8
           4
     11
           =
                 Process finished with exit code \theta

    □ = ±
           ē
            Ė

■ Terminal 

4: Run 

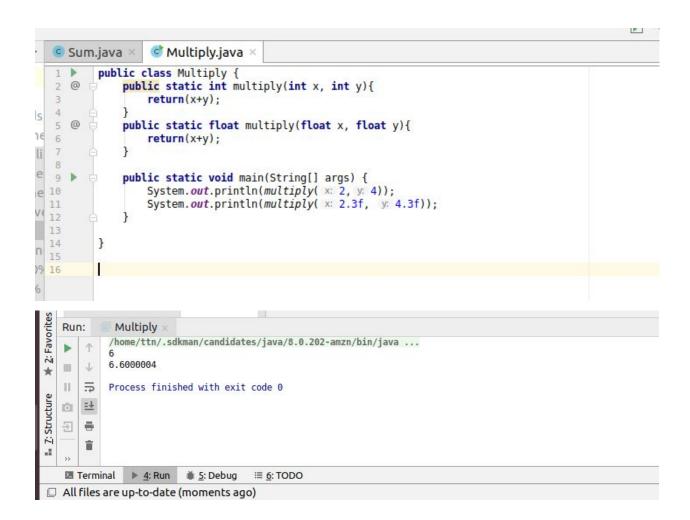
5: Debug 

6: TODO

☐ All files are up-to-date (moments ago)
```

### C) multiplying 2 float

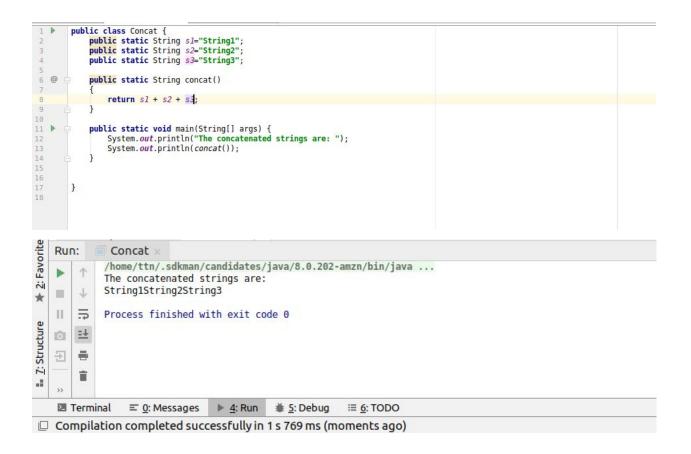
## D) multiplying 2 int



#### E) concate 2 string

```
public class Concat {
             public static String s1="String1";
public static String s2="String2";
 5 @
             public static String concat()
                  return s1 + s2;
             public static void main(String[] args) {
    System.out.println("The concatenated strings are: ");
10 b
11
12
13
14
15
16
17
                  System.out.println(concat());
2: Favorite
    Run:
                 /home/ttn/.sdkman/candidates/java/8.0.202-amzn/bin/java ...
                 The concatenated strings are:
          4
                 String1String2
     100
*
                 Process finished with exit code 0
          ₽
     11
... 7: Structure
    □ =±
           -
    田
                       ≡ <u>0</u>: Messages
                                              ▶ <u>4</u>: Run
                                                            ₩ 5: Debug
                                                                              : <u>6</u>: TODO
☐ Compilation completed successfully in 1 s 765 ms (moments ago)
```

#### F) Concate 3 String



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 {
     0
                 public void getDetails(){
                       System.out.println("The details are: ");
 6
            class SBI extends Bank{
                 int rateOfInterest=4;
                  int numberofloans=2500;
 8
                  int numberofbranches=110;
10 0
                public void getDetails(){
                      System.out.println("Rate of interest = "+ rateOfInterest);
System.out.println("Number of loans given= "+ numberofloans);
System.out.println("Number of branches: "+numberofbranches);
12
13
14
16
17
18
            class BOI extends Bank {
                 int rateOfInterest = 3;
                  int numberofloans = 1798;
19
                  int numberofbranches = 97;
20
21 •†
22
23
24
25
26
27
                  public void getDetails() {
                       System.out.println("Nate of interest = " + rateOfInterest);
System.out.println("Number of loans given= " + numberofloans);
System.out.println("Number of branches: " + numberofbranches);
29 >
30
31
                  class ICICI extends Bank {
                       int rateOfInterest = 4;
int numberofloans = 2189;
32
                        int numberofbranches = 256;
33
34 •† 35
                        public void getDetails() {
                             System.out.println("Rate of interest = " + rateOfInterest);
```

```
0
         public void getDetails() {
             System.out.println("Rate of interest = " + rateOfInterest);
             System.out.println("Number of loans given= " + numberofloans);
             System.out.println("Number of branches: " + numberofbranches);
         }
     }
         class ICICI extends Bank {
             int rateOfInterest = 4;
             int numberofloans = 2189;
             int numberofbranches = 256;
0
             public void getDetails() {
                 System.out.println("Rate of interest = " + rateOfInterest);
                 System.out.println("Number of loans given= " + numberofloans);
                 System.out.println("Number of branches: " + numberofbranches);
             public static void main(String[] args) {
Þ
                 SBI sbi = new SBI();
                 BOI boi = new BOI();
                 ICICI icici = new ICICI();
                 sbi.getDetails();
                 boi.getDetails();
                 icici.getDetails();
```

