Helper.java

```
import java.util.Scanner;

public class Helper {
    //Q1. Write a program to replace a substring inside a string with another string ?
    public void question1() {
        System.out.println("Q1. Write a program to replace a substring inside a string with another string ?");
        String s1 = "Hello World";
        System.out.println("The original sting is " + s1);
        String m = s1.replace("Hello", "Hi");
        System.out.println("the new string replaced by substring - hi is :" + m);
        System.out.println("");
        System.out.println("");
```

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

}

```
public void question2() {
    System.out.println("Q2 Write a program to find the number of occurrences of the duplicate words in a
string and print them ?");
    System.out.println("the input sting is:");
    String input = "Welcome to Java Session Session Session";
    System.out.println(input);
    String[] words = input.split(" ");
    int wrc = 1;
    for (int i = 0; i < words.length; i++) {
      for (int j = i + 1; j < words.length; j++) {
         if (words[i].equals(words[j])) {
           wrc = wrc + 1;
           words[i] = "0";
         }
      if (!words[i].equals("0") && wrc > 1)
         System.out.println(words[i] + "--" + wrc);
      wrc = 1;
    System.out.println("");
    System.out.println("");
```

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

```
public void question3() {
    System.out.println("Q3. Write a program to find the number of occurrences of a character in a string
without using loop?");
    System.out.println("Enter the string");
    Scanner scanner = new Scanner(System.in);
    String str = scanner.next();
    char[] arr = str.toCharArray();
    System.out.println("Enter the character for which occurence is to be forund");
    char a = scanner.next().charAt(0);
    int wc = 0;
    int wrc = count(a, 0, str, wc);
    System.out.println("The occurences of character " + a + " is : " + wrc);
    System.out.println("");
    System.out.println("");
 int count(char a, int position, String str, int wrc) {
    int index = str.indexOf(a, position);
    if (index \geq 0) {
      wrc++;
       return count(a, index + 1, str, wrc);
    } else
      return wrc;
 }
```

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

```
public void question4(){
    System.out.println("Q4. Calculate the number & Percentage Of Lowercase Letters, Uppercase Letters,
Digits And Other Special Characters In A String");
    System.out.println("Enter the string");
    Scanner scanner = new Scanner(System.in);
    String str = scanner.next();
    float u=0,l=0,d=0,s=0;
    for(int i=0;i<str.length();i++){</pre>
      if(Character.isDigit(str.charAt(i)))d++;
      else if(Character.isUpperCase(str.charAt(i)))u++;
      else if(Character.isLowerCase(str.charAt(i)))l++;
      else s++;
    System.out.println("The percentage of Digit Characters in the string ""+str+"" is :"+d/str.length()*100);
    System.out.println("The percentage of Uppercase Characters in the string "+str+" is :"+u/str.length()*100);
    System.out.println("The percentage of Lowercase Characters in the string ""+str+" is :"+l/str.length()*100);;
    System.out.println("The percentage of Other special Characters in the string ""+str+"' is
:"+s/str.length()*100);
    System.out.println("");
    System.out.println("");
 }
```

// Q5. Find common elements between two arrays.

```
public void question5(){
   System.out.println("Q5. Find common elements between two arrays.");
   Integer[] a=new Integer[]{1,2,3,4,5};
  Integer[] b=new Integer[]{5,2,3,7,9};
   System.out.println("The elements of first array are :");
  for(int i=0;i<a.length;i++) System.out.println(a[i]);
   System.out.println("The elements of second array are :");
  for(int i=0;i<a.length;i++) System.out.println(b[i]);</pre>
  for(int i=0;i<a.length;i++){</pre>
     for(int j=0;j<b.length;j++){</pre>
        if(a[i].equals(b[j])){
          System.out.println("the common element between two array is :"+a[i]);
       }
     }
  System.out.println("");
  System.out.println("");
}
```

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

```
public void question6(){
    System.out.println("Q6. There is an array with every element repeated twice except one. Find that
element");
    Integer[] arr = new Integer[]{2,2,3,4,4,5,5,6,6};
    System.out.println("The array is:");
    for (int i=0;i<arr.length;i++) System.out.println(arr[i]);</pre>
    int wrc=1;
    for (int i = 0; i < arr.length; i++) {
       for (int j = i + 1; j < arr.length; j++) {
         if (arr[i].equals(arr[j])) {
            wrc = wrc + 1;
            arr[j] = 0;
         }
       if (arr[i]!=0 \&\& wrc == 1)
         System.out.println("tHE ELEMENT WITH ONLY ONE OCCURENCE IS:"+ arr[i]);
       wrc = 1;
    System.out.println("");
    System.out.println("");
 }
}
```

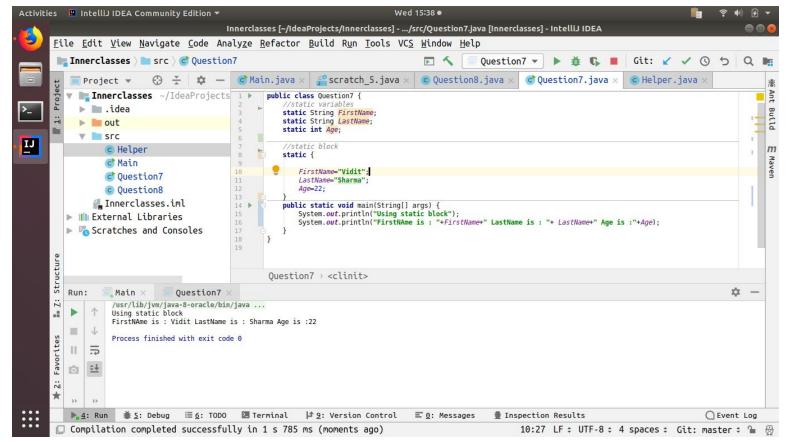
Main.java

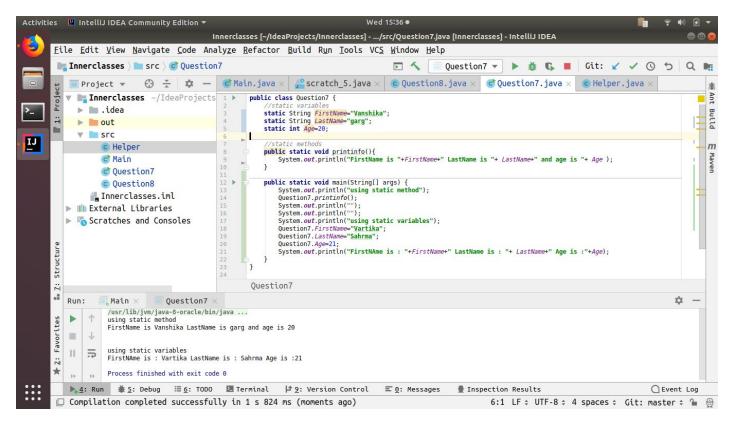
```
public class Main {
  public static void main(String[] args) {
    Helper helper =new Helper();
    helper.question1();
    helper.question2();
    helper.question3();
    helper.question4();
    helper.question5();
    helper.question6();
}
```

```
Run:
            /usr/lib/jvm/java-8-oracle/bin/java ...
            Q1. Write a program to replace a substring inside a string with another string ?
            The original sting is Hello World
            the new string replaced by substring - hi is :Hi World
П
     5
            Q2 Write a program to find the number of occurrences of the duplicate words in a string and print them ?
            the input sting is :
Ö
            Welcome to Java Session Session Session
            Session--3
药
            Q3. Write a program to find the number of occurrences of a character in a string without using loop?
            Enter the string
            vanshikagarg
==
            Enter the character for which occurence is to be forund
            The occurences of character 'a' is :3
            Q4. Calculate the number & Percentage Of Lowercase Letters, Uppercase Letters, Digits And Other Special Characters In A String
            Enter the string
            ashjhdbjhabd!@#$%^&*12345678AHVSJHDKJ
            The percentage of Digit Characters in the string 'ashjhdbjhabd!@#$%~&*12345678AHVSJHDKJ' is :21.621622
           The percentage of Uppercase Characters in the string 'ashjhdbjhabd!@#$%^&*12345678AHVSJHDKJ' is :24.324326
The percentage of Lowercase Characters in the string 'ashjhdbjhabd!@#$%^&*12345678AHVSJHDKJ' is :32.43243
            The percentage of Other special Characters in the string 'ashjhdbjhabd!@#$%^&*12345678AHVSJHDKJ' is :21.621622
```

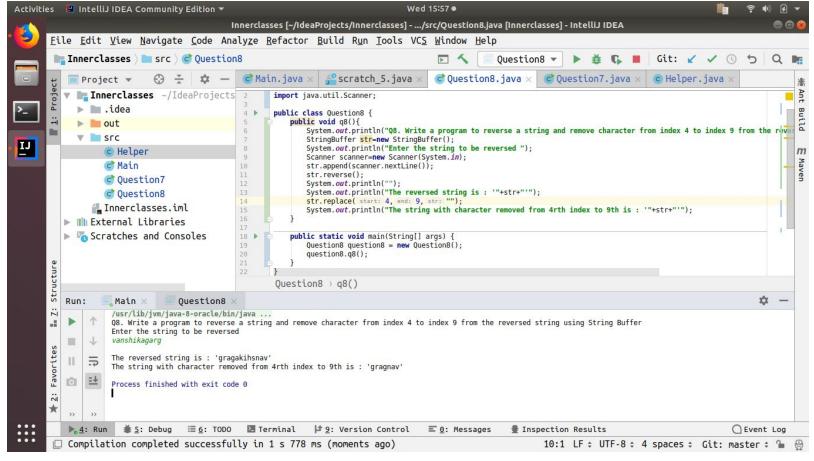
```
Run:
             Main
            Q5. Find common elements between two arrays. The elements of first array are :
11
     5
     =+
            The elements of second array are :
0
      =
芸
            the common element between two array is :2
            the common element between two array is :3
the common element between two array is :5
            Q6. There is an array with every element repeated twice except one. Find that element
            The array is :
            3
4
4
5
            THE ELEMENT WITH ONLY ONE OCCURENCE IS :3
```

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

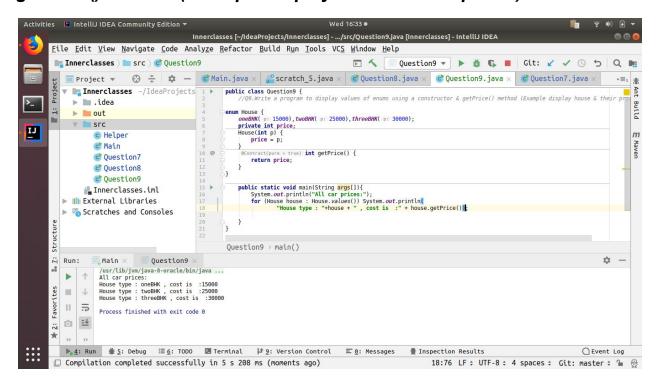




Q8. Write a program to reverse a string and remove character from index 4 to index 9 from the reversed string using String Buffer

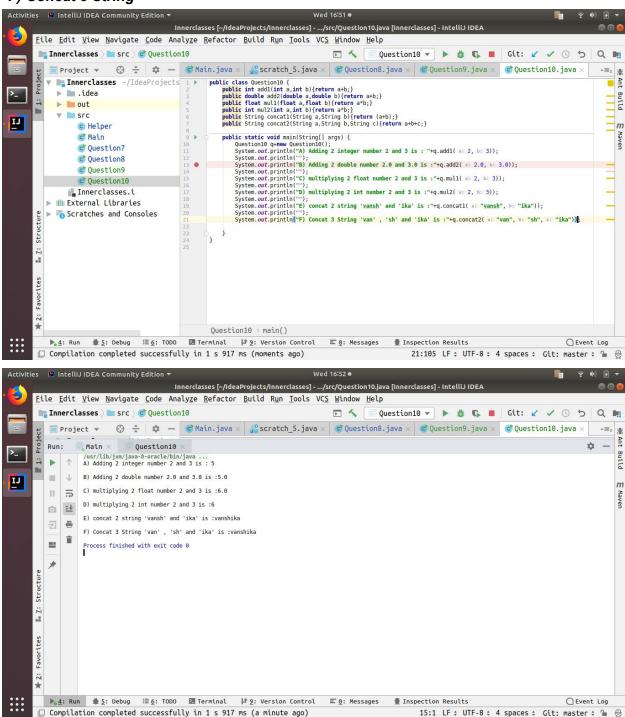


Q9.Write a program to display values of enums using a constructor & getPrice() method (Example display house & their prices)

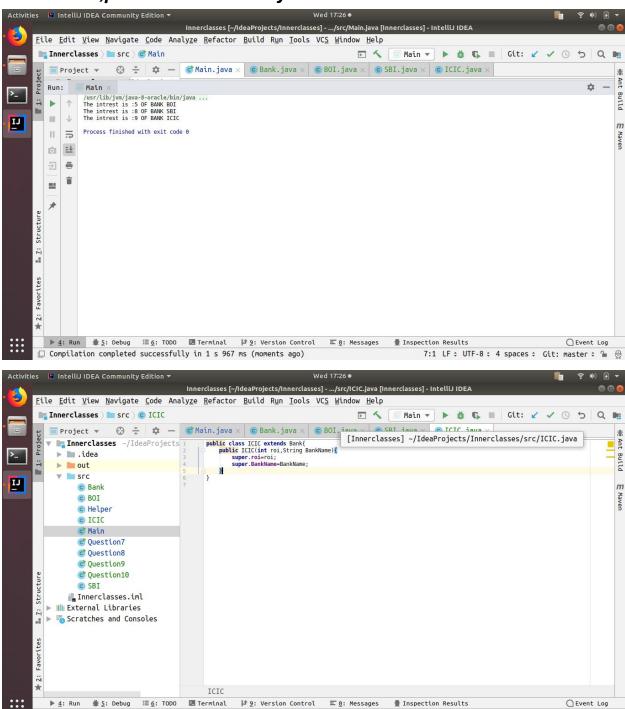


Q10.Write a single program for following operation using overloading

- A) Adding 2 integer number
- B) Adding 2 double
- C) multiplying 2 float
- D) multiplying 2 int
- E) concat 2 string
- F) Concat 3 String



Q11.Create 3 subclass of bank SBI,BOI,ICICI all 4 should have method called getDetails which provide there specific details like rate of interest etc,print details of every banks



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