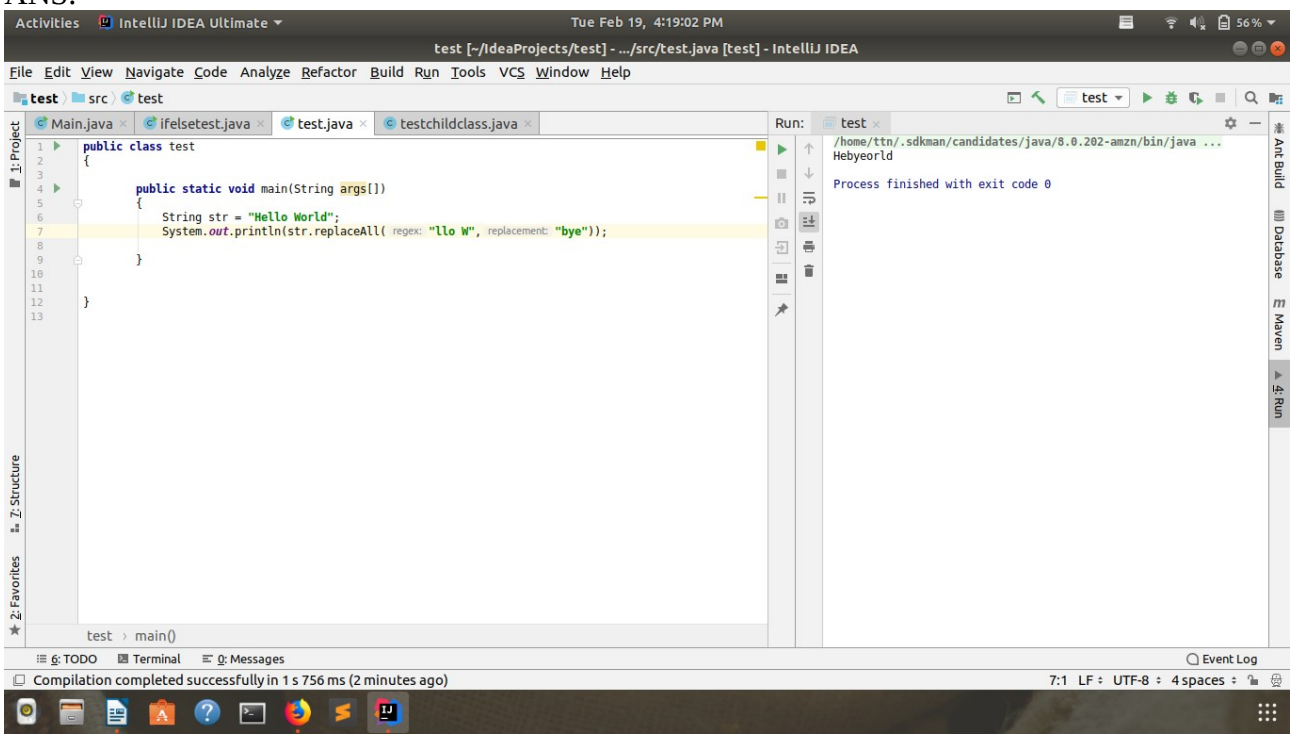
ASSIGNMENT ON JAVA1

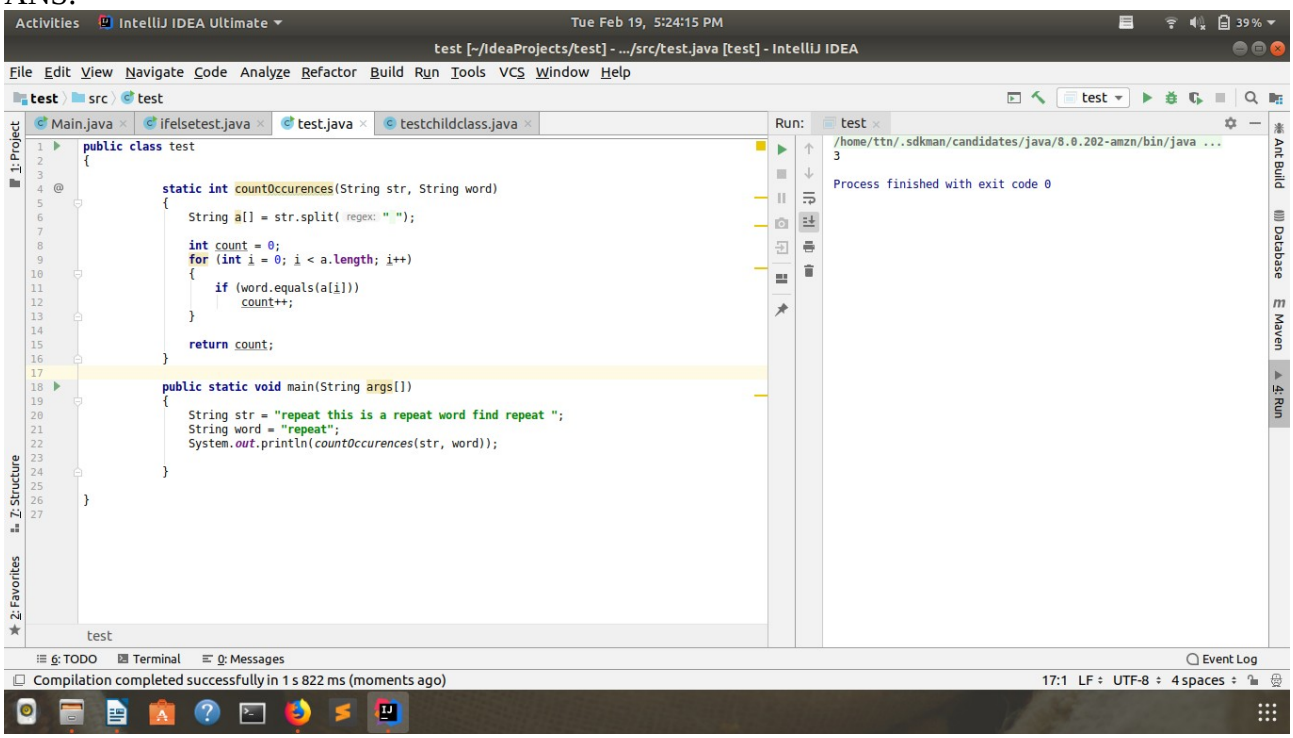
Q1. Write a program to replace a substring inside a string with other string ?
Q2. Write a program to find the number of occurrences of the duplicate words in a string and print them ?
Q3. Write a program to find the number of occurrences of a character in a string without using loop?
Q4. Calculate the number & Percentage Of Lowercase Letters,Uppercase Letters, Digits And Other Special Characters In A String
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)
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
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

ANSWESRS

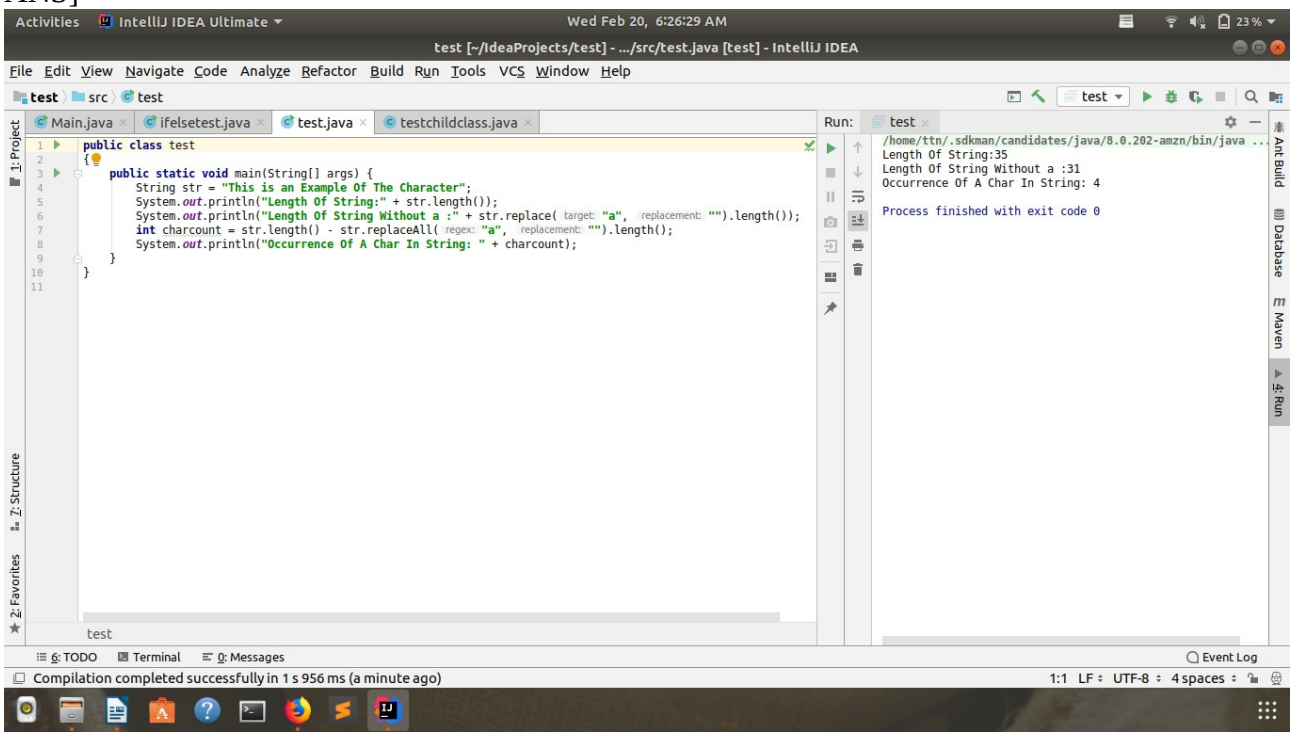
Q1]Write a program to replace a substring inside a string with other string ?
ANS.



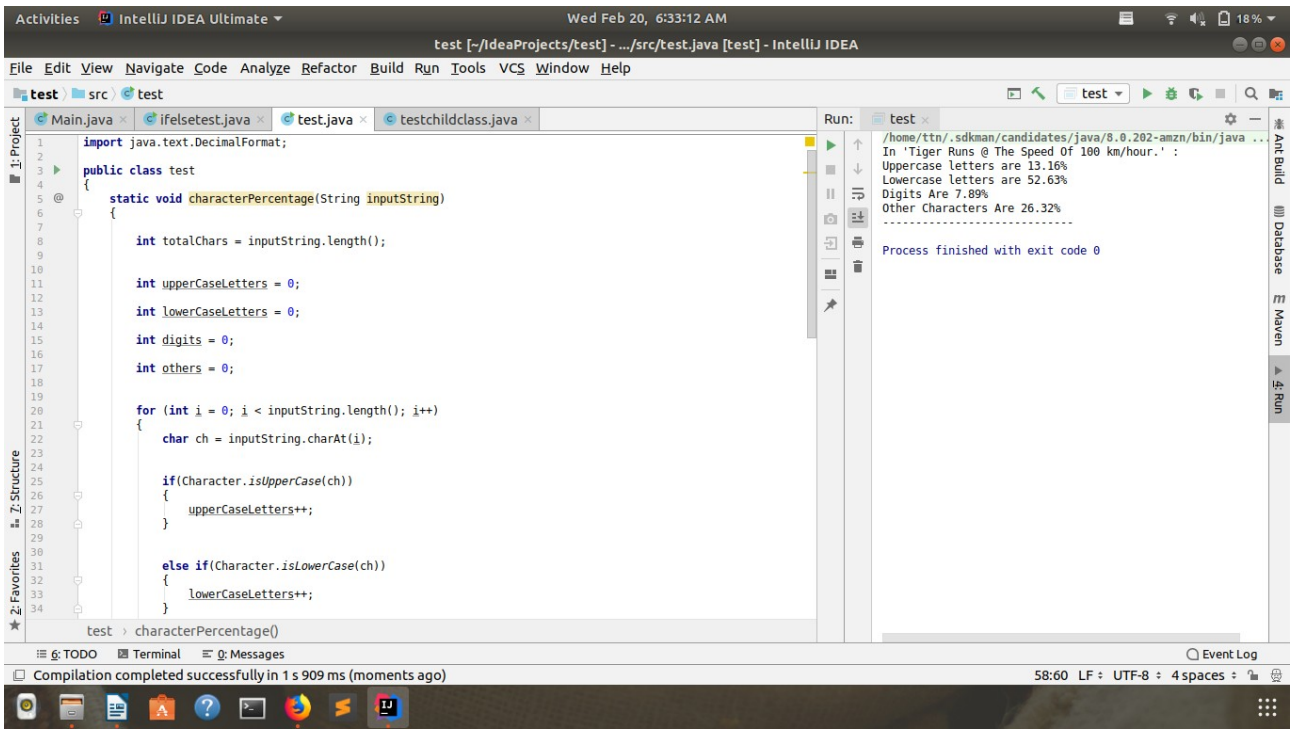
Q2]Write a program to find the number of occurrences of the duplicate words in a string and print them ?
ANS.



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



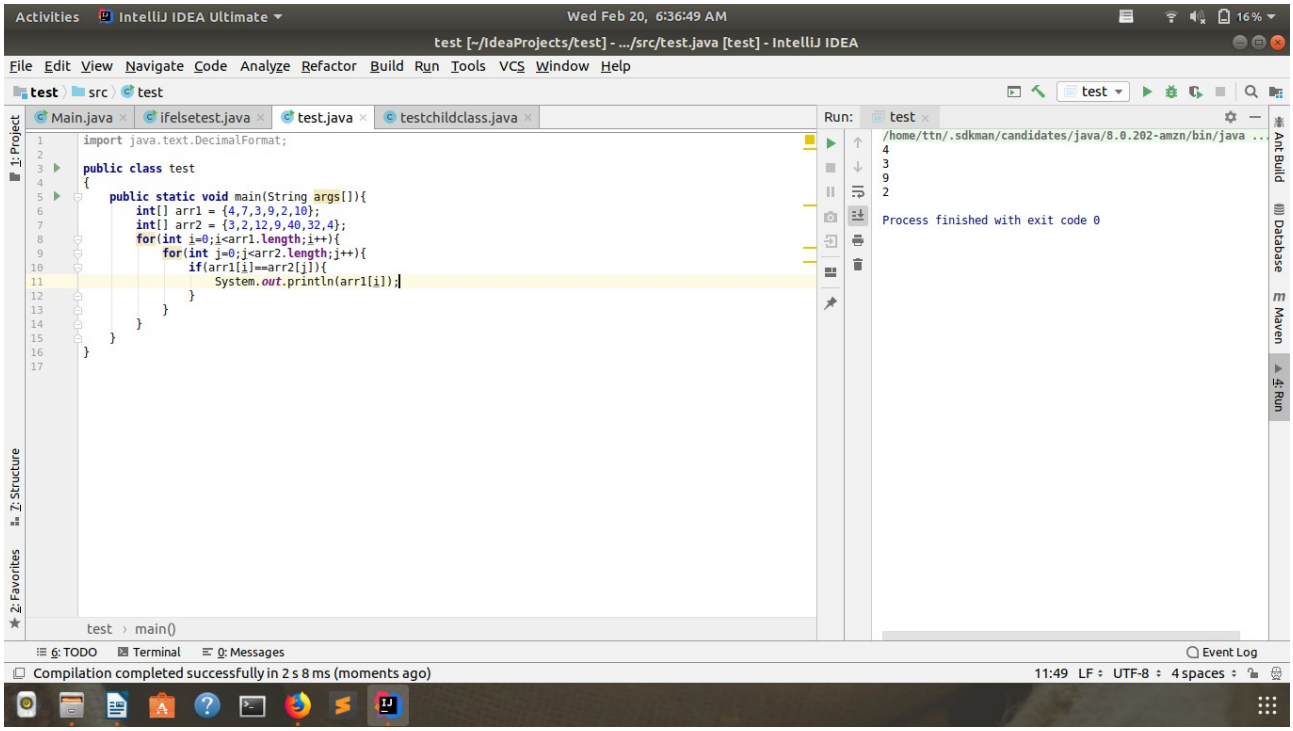
Q4] Calculate the number & Percentage Of Lowercase Letters,Uppercase Letters, Digits And Other Special Characters In A String
ANS.



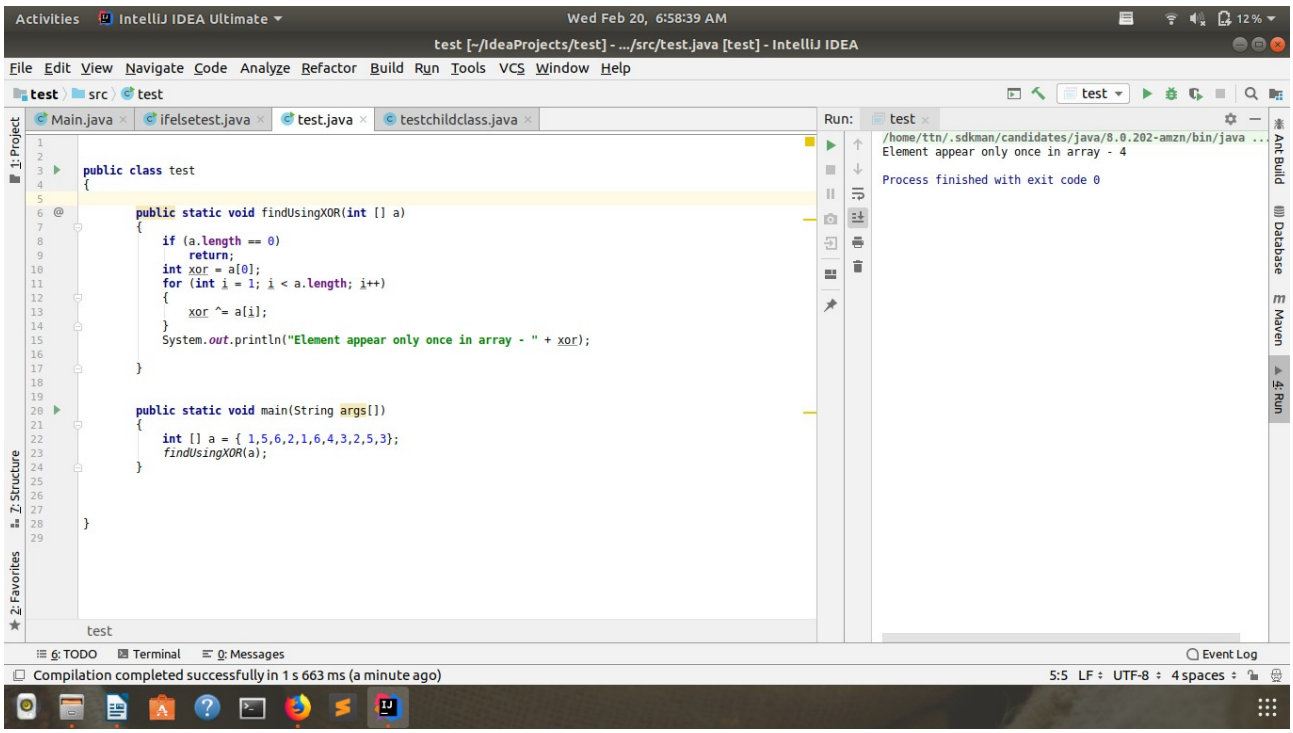

```java
import java.text.DecimalFormat;
public class test
{
    static void characterPercentage(String inputString)
    {
        int totalChars = inputString.length();
        int upperCaseLetters = 0;
        int lowerCaseLetters = 0;
        int digits = 0;
        int others = 0;
        for (int i = 0; i < inputString.length(); i++)
        {
            char ch = inputString.charAt(i);
            if(Character.isUpperCase(ch))
            {
                upperCaseLetters++;
            }
            else if(Character.isLowerCase(ch))
            {
                lowerCaseLetters++;
            }
            else if (Character.isDigit(ch))
            {
                digits++;
            }
            else
            {
                others++;
            }
        }
        double upperCaseLetterPercentage = (upperCaseLetters * 100.0) / totalChars ;
        double lowerCaseLetterPercentage = (lowerCaseLetters * 100.0) / totalChars;
        double digitsPercentage = (digits * 100.0) / totalChars;
        double otherCharPercentage = (others * 100.0) / totalChars;
        DecimalFormat formatter = new DecimalFormat("##.##");
        System.out.println("In '"+inputString+"' : ");
        System.out.println("Uppercase letters are
"+formatter.format(upperCaseLetterPercentage)+"% ");
```

```
        System.out.println("Lowercase letters are
"+formatter.format(lowerCaseLetterPercentage)+"%");
        System.out.println("Digits Are "+formatter.format(digitsPercentage)+"%");
        System.out.println("Other Characters Are "+formatter.format(otherCharPercentage)
+"%");
        System.out.println("----------------------------");
    }
    public static void main(String[] args)
    {
        characterPercentage("Tiger Runs @ The Speed Of 100 km/hour.");
    }
}
```

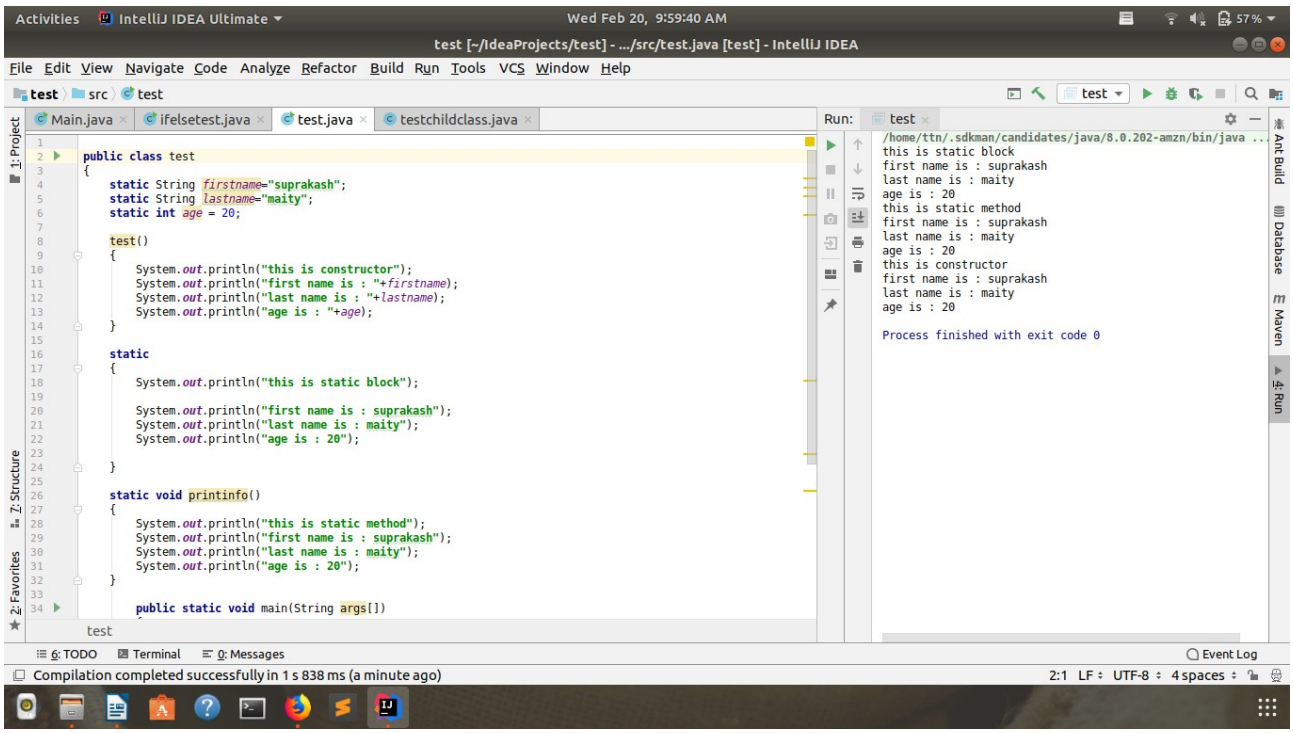
Q5]Find common elements between two arrays.
ANS.



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



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

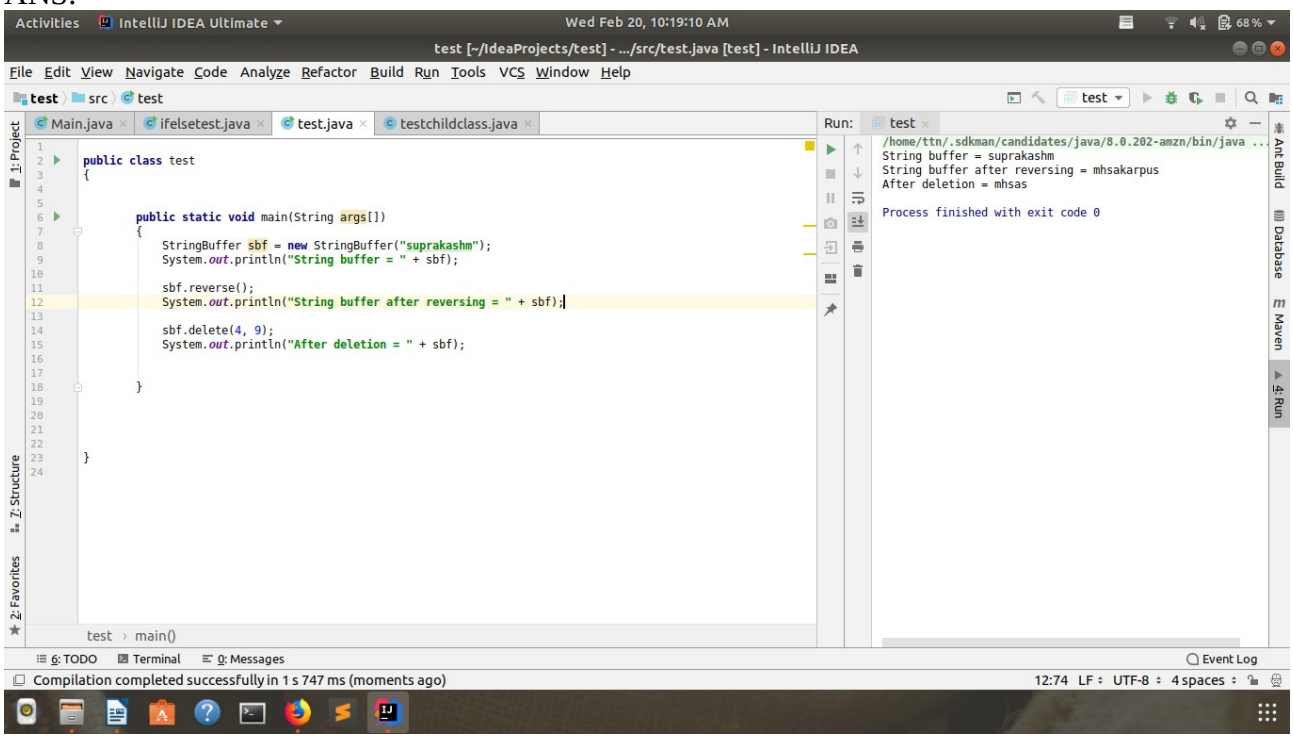



```
public class test
{
    static String firstname="suprakash";
    static String lastname="maity";
    static int age = 20;

    test()
    {
```

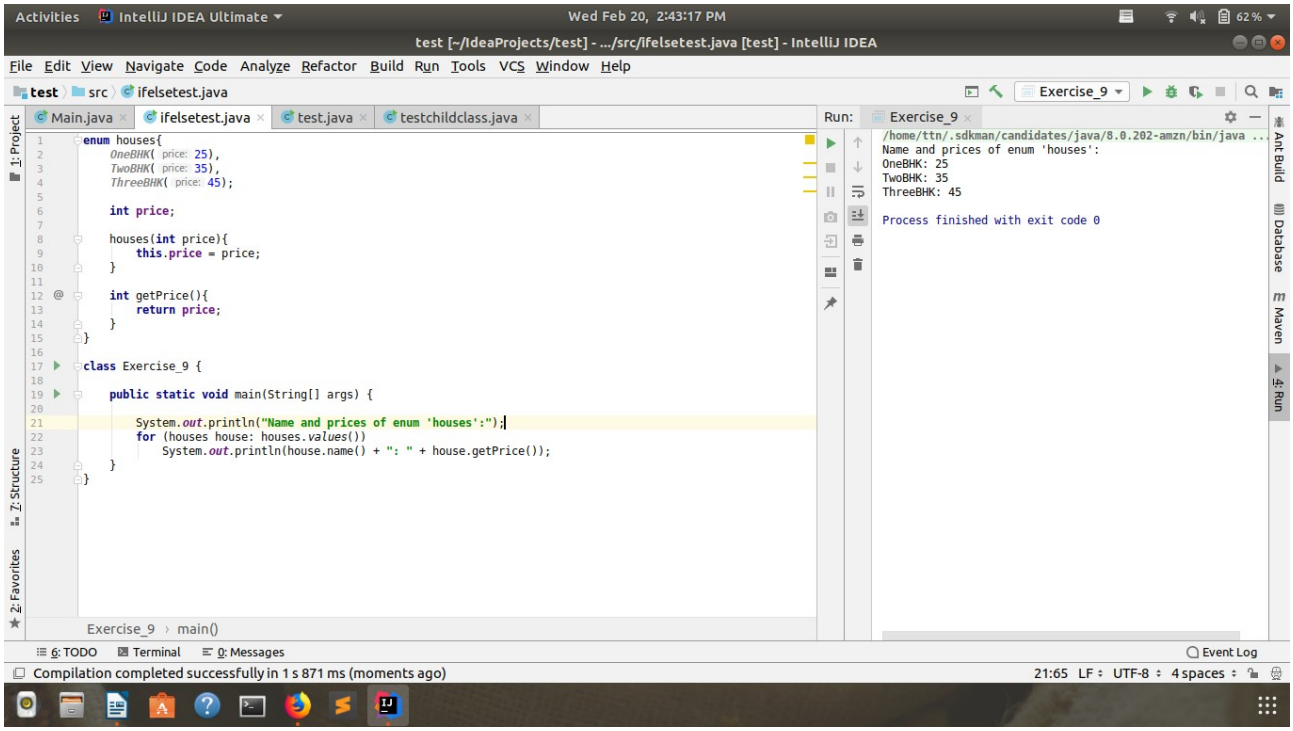
```
        System.out.println("this is constructor");
        System.out.println("first name is : "+firstname);
        System.out.println("last name is : "+lastname);
        System.out.println("age is : "+age);
    }
    static
    {
        System.out.println("this is static block");
        System.out.println("first name is : suprakash");
        System.out.println("last name is : maity");
        System.out.println("age is : 20");
    }

    static void printinfo()
    {
        System.out.println("this is static method");
        System.out.println("first name is : suprakash");
        System.out.println("last name is : maity");
        System.out.println("age is : 20");
    }

        public static void main(String args[])
        {
            test.printinfo();

            test t1=new test();

        }



}
```

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

ANS.



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



Q10.Write a single program for following operation using overloading
A) Adding 2 integer number
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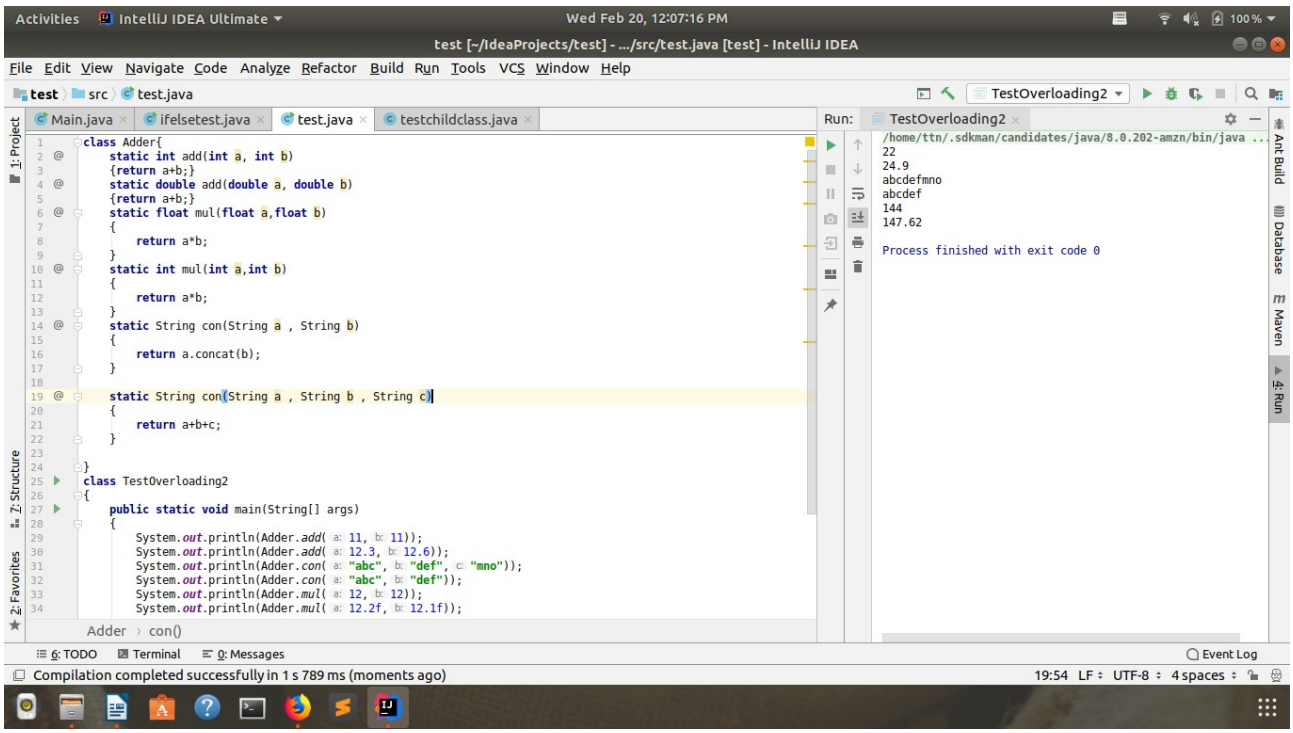
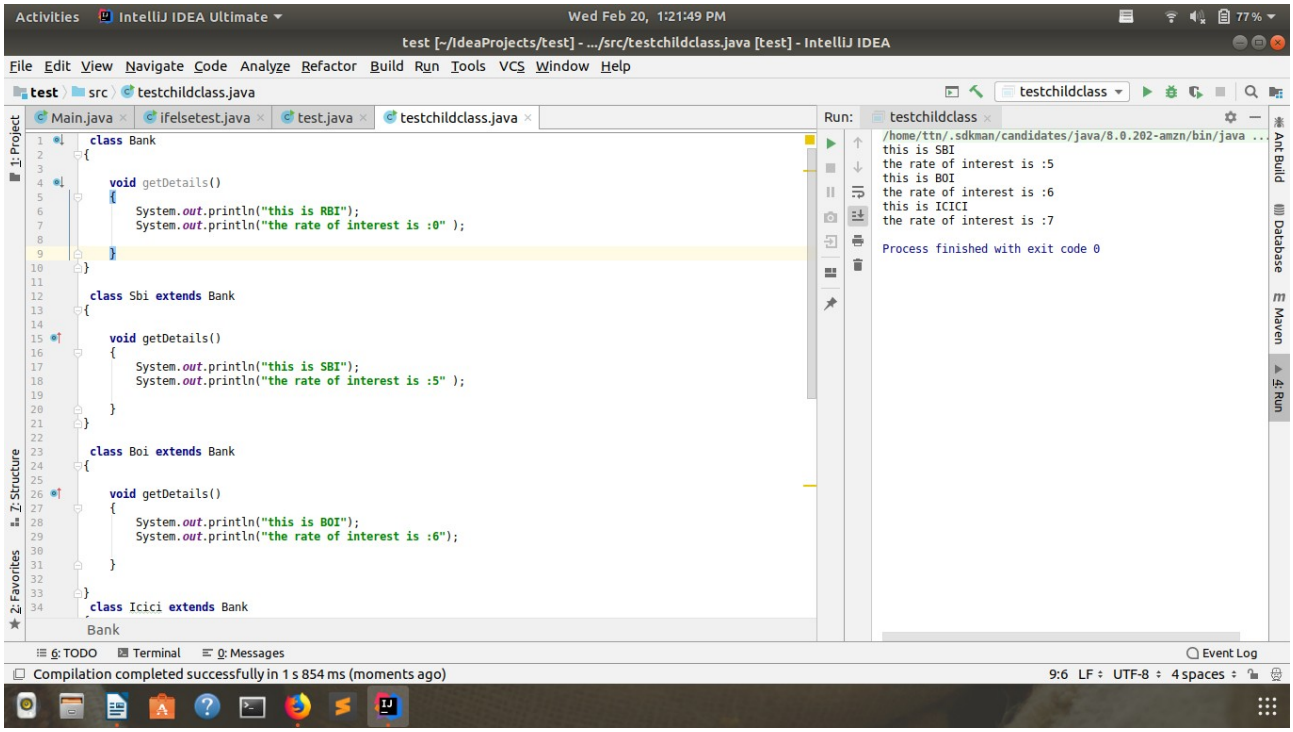
ANS.




```java
class Adder{
     static int add(int a, int b)
     {return a+b;}
     static double add(double a, double b)
     {return a+b;}
     static float mul(float a,float b)
     {
          return a*b;
     }
     static int mul(int a,int b)
     {
          return a*b;
     }
     static String con(String a , String b)
     {
          return a.concat(b);
     }
     static String con(String a , String b , String c)
     {
          return a+b+c;
     }

}
class TestOverloading2
{
     public static void main(String[] args)
     {
          System.out.println(Adder.add(11,11));
          System.out.println(Adder.add(12.3,12.6));
          System.out.println(Adder.con("abc","def","mno"));
          System.out.println(Adder.con("abc","def"));
          System.out.println(Adder.mul(12,12));
          System.out.println(Adder.mul(12.2f,12.1f));
     }
}
```

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
ANS.




```
 class Bank
{

    void getDetails()
    {
        System.out.println("this is RBI");
        System.out.println("the rate of interest is :0" );
    }
}
 class Sbi extends Bank
{

    void getDetails()
    {
        System.out.println("this is SBI");
        System.out.println("the rate of interest is :5" );
    }
}
 class Boi extends Bank
{

    void getDetails()
    {
        System.out.println("this is BOI");
        System.out.println("the rate of interest is :6");
    }
}
 class Icici extends Bank
{

    void getDetails()
    {
        System.out.println("this is ICICI");
        System.out.println("the rate of interest is :7");
    }
}
```

```
public class testchildclass
{
    public static void main(String args[])
    {
        Sbi s = new Sbi();
        Boi b = new Boi();
        Icici i =new Icici();
        s.getDetails();
        b.getDetails();
        i.getDetails();
    }
}
```