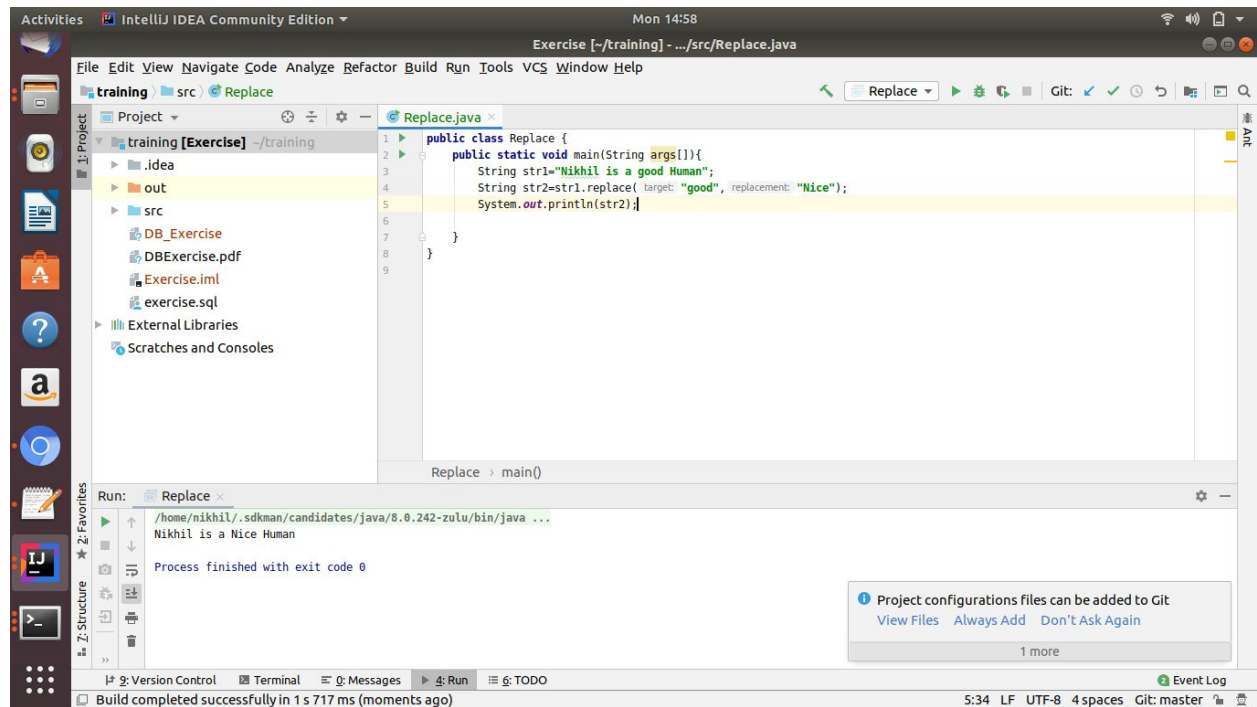


**Q1. Write a program to replace a substring inside a string with other string ?**

**Ans.**

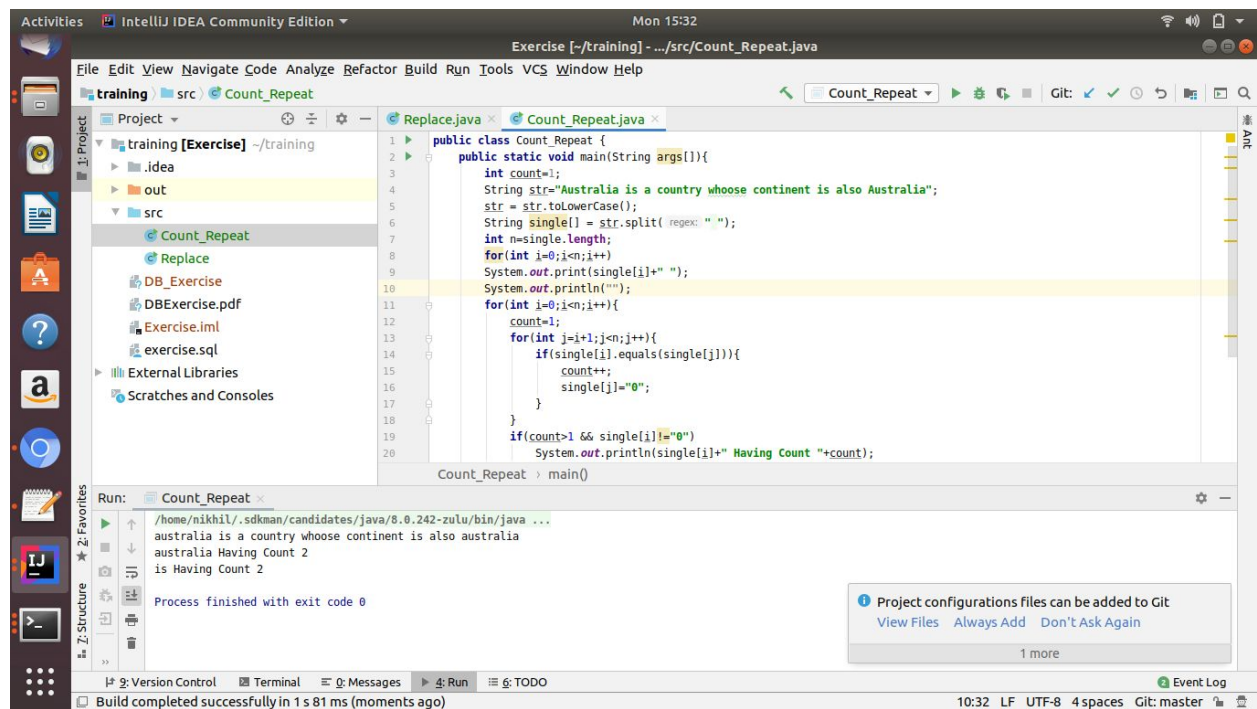


**Code:-**

```
public class Replace {  
    public static void main(String args[]){  
        String str1="Nikhil is a good Human";  
        String str2=str1.replace("good","Nice");  
        System.out.println(str2);  
    }  
}
```

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

Ans.

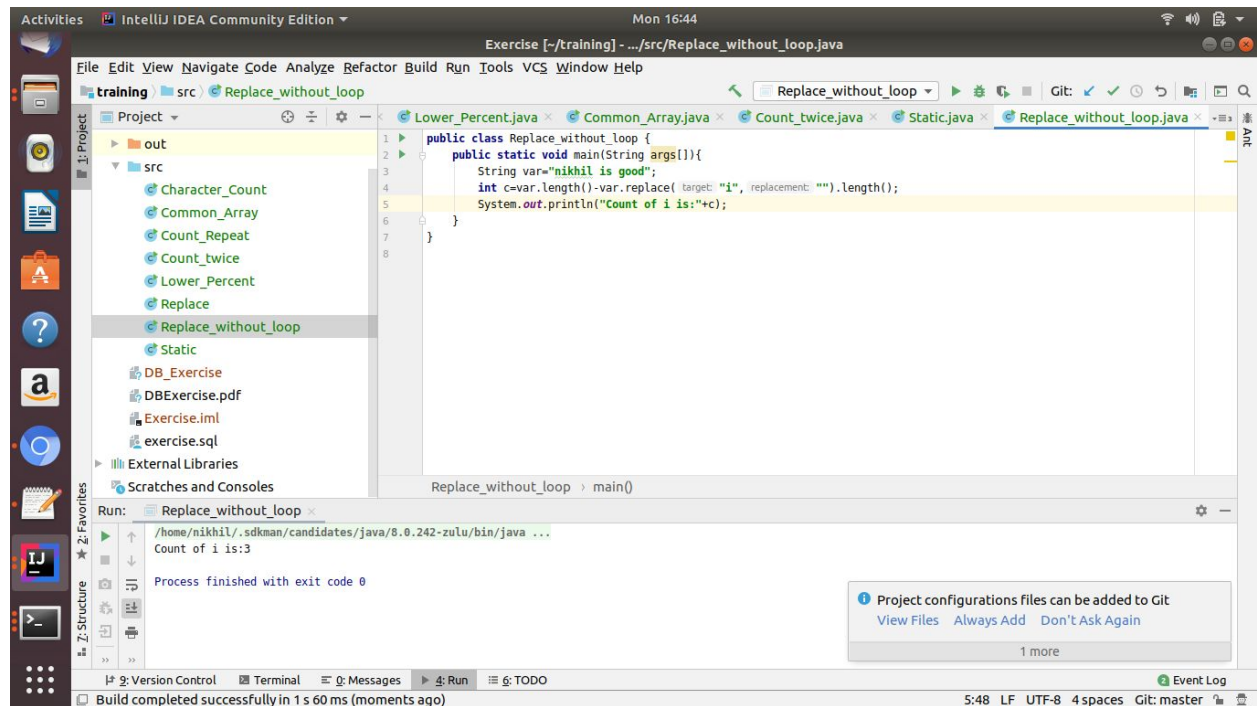


Code:-

```
public class Count_Repeat {
    public static void main(String args[]){
        int count=1;
        String str="Australia is a country whose continent is also Australia";
        str = str.toLowerCase();
        String single[] = str.split(" ");
        int n=single.length;
        for(int i=0;i<n;i++){
            System.out.print(single[i]+" ");
            System.out.println("");
        }
        for(int i=0;i<n;i++){
            count=1;
            for(int j=i+1;j<n;j++){
                if(single[i].equals(single[j])){
                    count++;
                    single[j]="0";
                }
            }
        }
        if(count>1 && single[i]!="0")
            System.out.println(single[i]+" Having Count "+count);
    }
}
```

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

**Ans.**

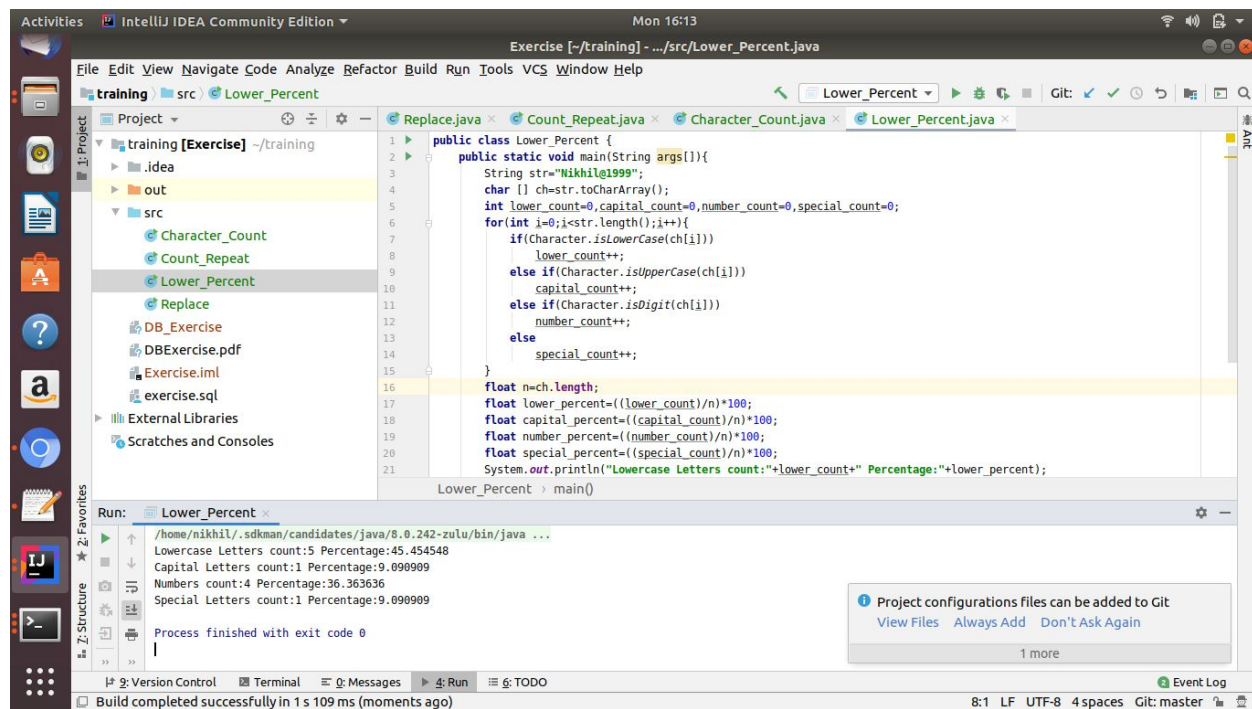


**Code:-**

```
public class Replace_without_loop {
    public static void main(String args[]){
        String var="nikhil is good";
        int c=var.length()-var.replace("i","").length();
        System.out.println("Count of i is:"+c);
    }
}
```

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

Ans.

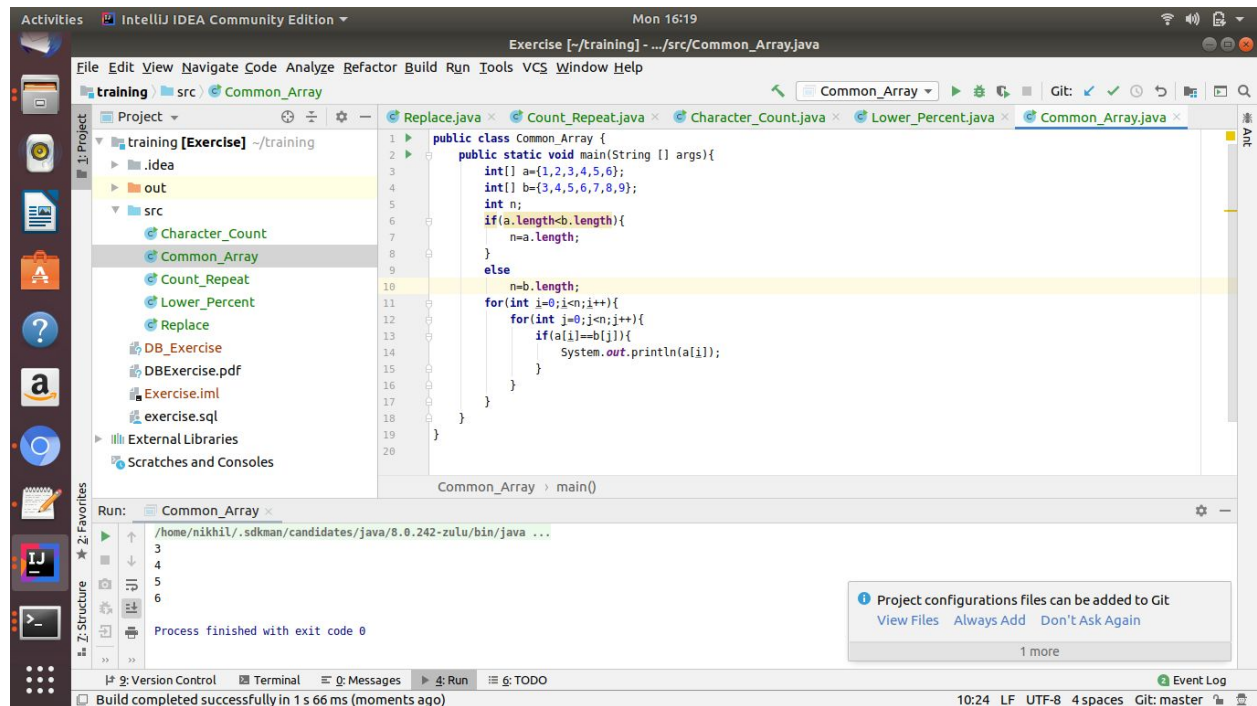


Code:-

```
public class Lower_Percent {
    public static void main(String args[]){
        String str="Nikhil@1999";
        char [] ch=str.toCharArray();
        int lower_count=0,capital_count=0,number_count=0,special_count=0;
        for(int i=0;i<str.length();i++){
            if(Character.isLowerCase(ch[i]))
                lower_count++;
            else if(Character.isUpperCase(ch[i]))
                capital_count++;
            else if(Character.isDigit(ch[i]))
                number_count++;
            else
                special_count++;
        }
        float n=ch.length;
        float lower_percent=((lower_count)/n)*100;
        float capital_percent=((capital_count)/n)*100;
        float number_percent=((number_count)/n)*100;
        float special_percent=((special_count)/n)*100;
        System.out.println("Lowercase Letters count:"+lower_count+" Percentage:"+lower_percent);
        System.out.println("Capital Letters count:"+capital_count+" Percentage:"+capital_percent);
        System.out.println("Numbers count:"+number_count+" Percentage:"+number_percent);
        System.out.println("Special Letters count:"+special_count+" Percentage:"+special_percent);
    }
}
```

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

**Ans.**

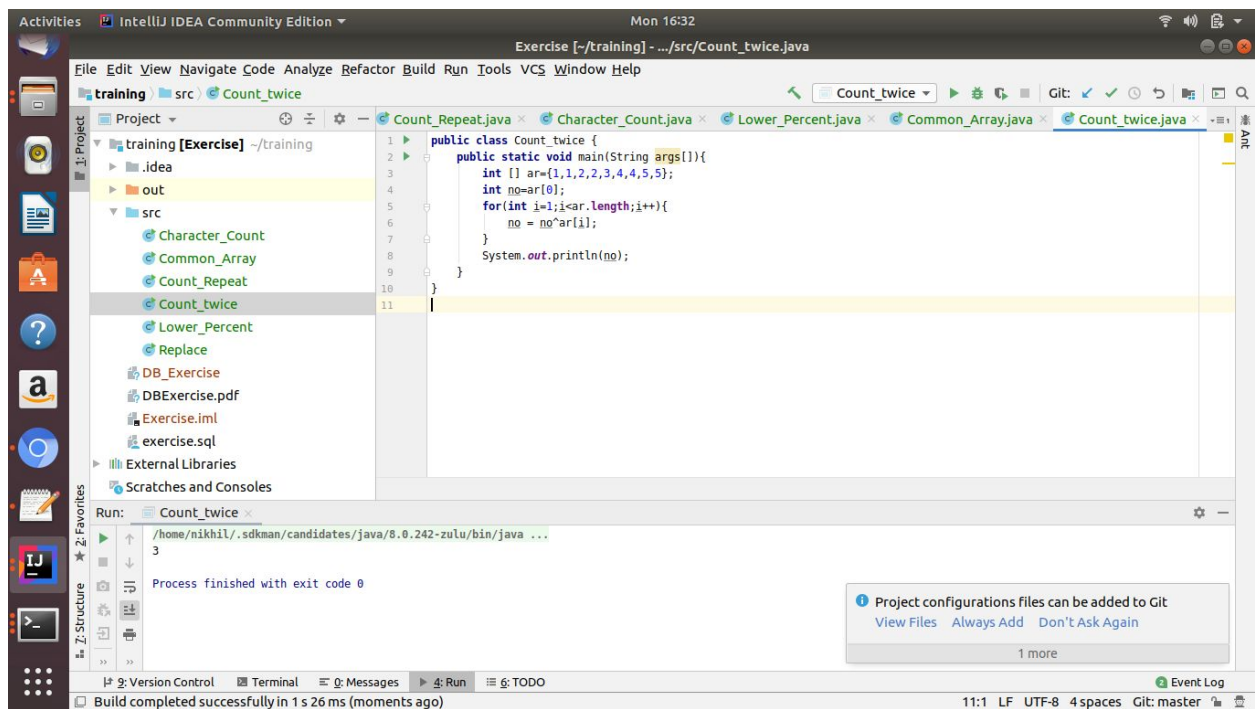


**Code:-**

```
public class Common_Array {  
    public static void main(String [] args){  
        int[] a={1,2,3,4,5,6};  
        int[] b={3,4,5,6,7,8,9};  
        int n;  
        if(a.length<b.length){  
            n=a.length;  
        }  
        else  
            n=b.length;  
        for(int i=0;i<n;i++){  
            for(int j=0;j<n;j++){  
                if(a[i]==b[j]){  
                    System.out.println(a[i]);  
                }  
            }  
        }  
    }  
}
```

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

Ans.



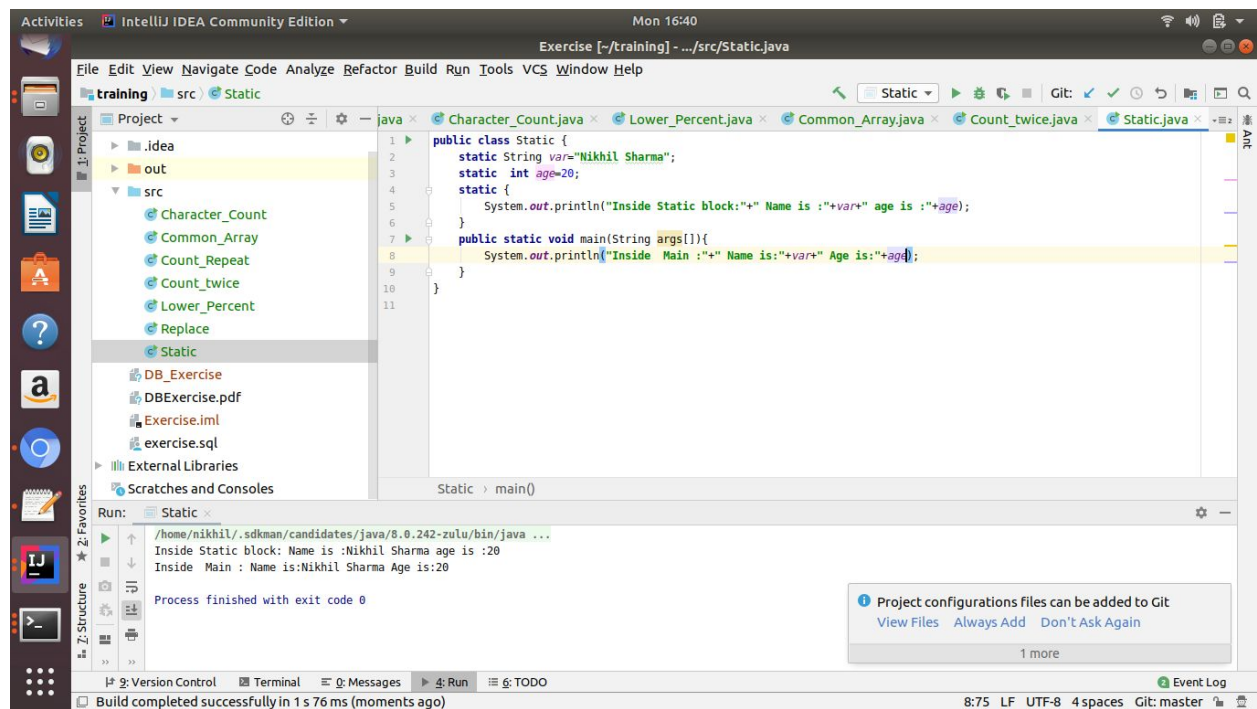
Code:-

```
public class Count_twice {  
    public static void main(String args[]){  
        int [] ar={1,1,2,2,3,4,4,5,5};  
        int no=ar[0];  
        for(int i=1;i<ar.length;i++){  
            no = no^ar[i];  
        }  
        System.out.println(no);  
    }  
}
```

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



Ans.

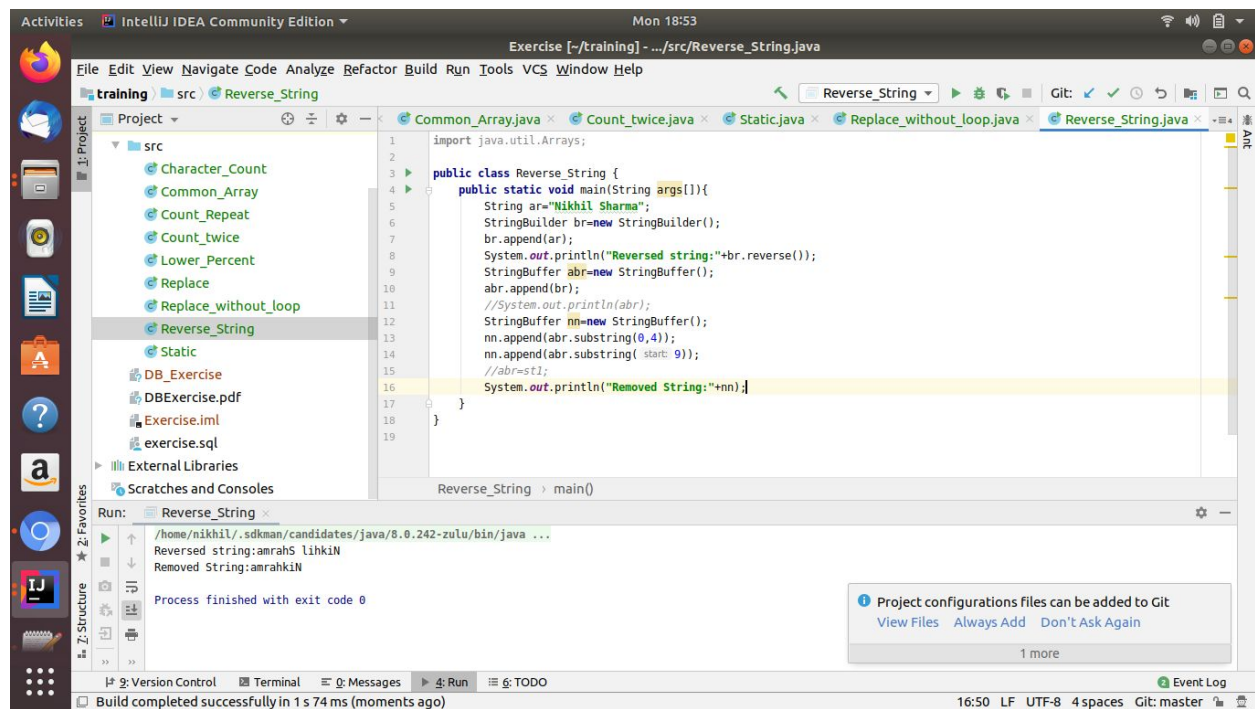


Code:-

```
public class Static {  
    static String var="Nikhil Sharma";  
    static int age=20;  
    static {  
        System.out.println("Inside Static block:"+ " Name is :"+var+" age is :"+age);  
    }  
    public static void main(String args[]){  
        System.out.println("Inside Main :"+ " Name is:"+var+" Age is:"+age);  
    }  
}
```

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.



Code:-

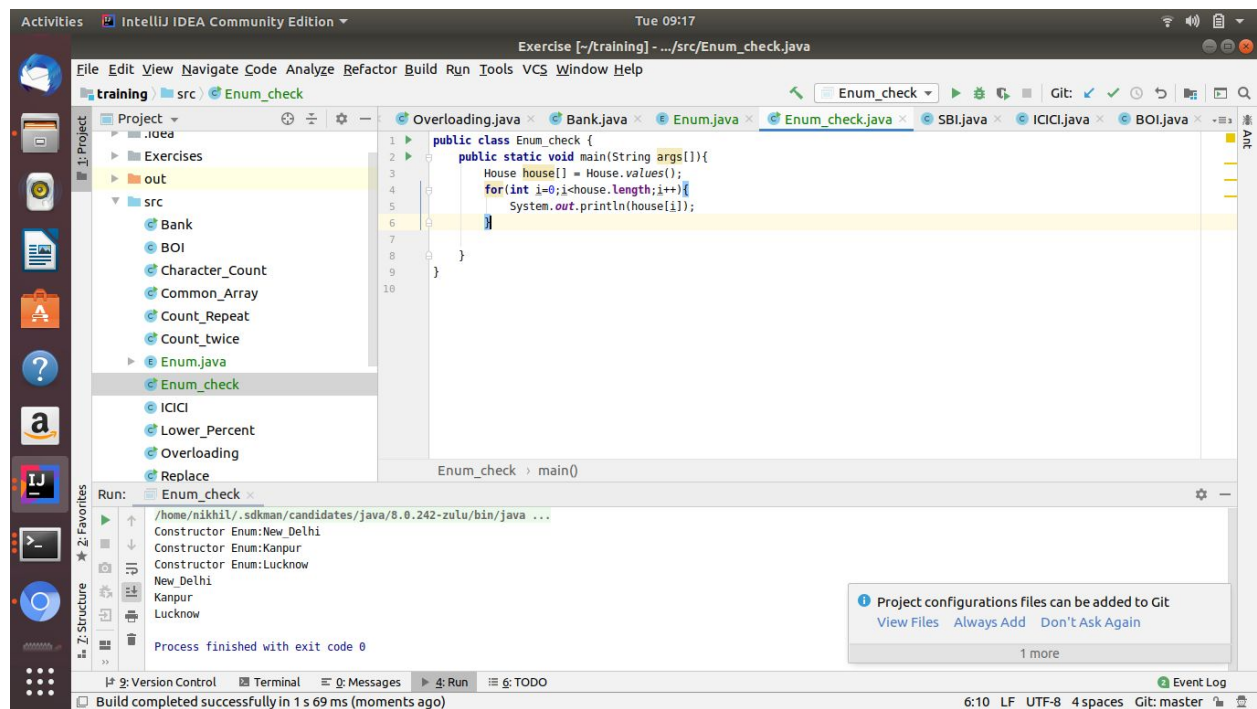
```
import java.util.Arrays;
```

```
public class Reverse_String {  
    public static void main(String args[]){  
        String ar="Nikhil Sharma";  
        StringBuilder br=new StringBuilder();  
        br.append(ar);  
        System.out.println("Reversed string:"+br.reverse());  
        StringBuffer abr=new StringBuffer();  
        abr.append(br);  
        //System.out.println(abr);  
        StringBuffer nn=new StringBuffer();  
        nn.append(abr.substring(0,4));  
        nn.append(abr.substring(9));  
        //abr=st1;  
        System.out.println("Removed String:"+nn);  
    }  
}
```

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



Ans.



Code:-

Enum\_check.java:-

```
public class Enum_check {
    public static void main(String args[]){
        House house[] = House.values();
        for(int i=0;i<house.length;i++){
            System.out.println(house[i]);
        }
    }
}
```

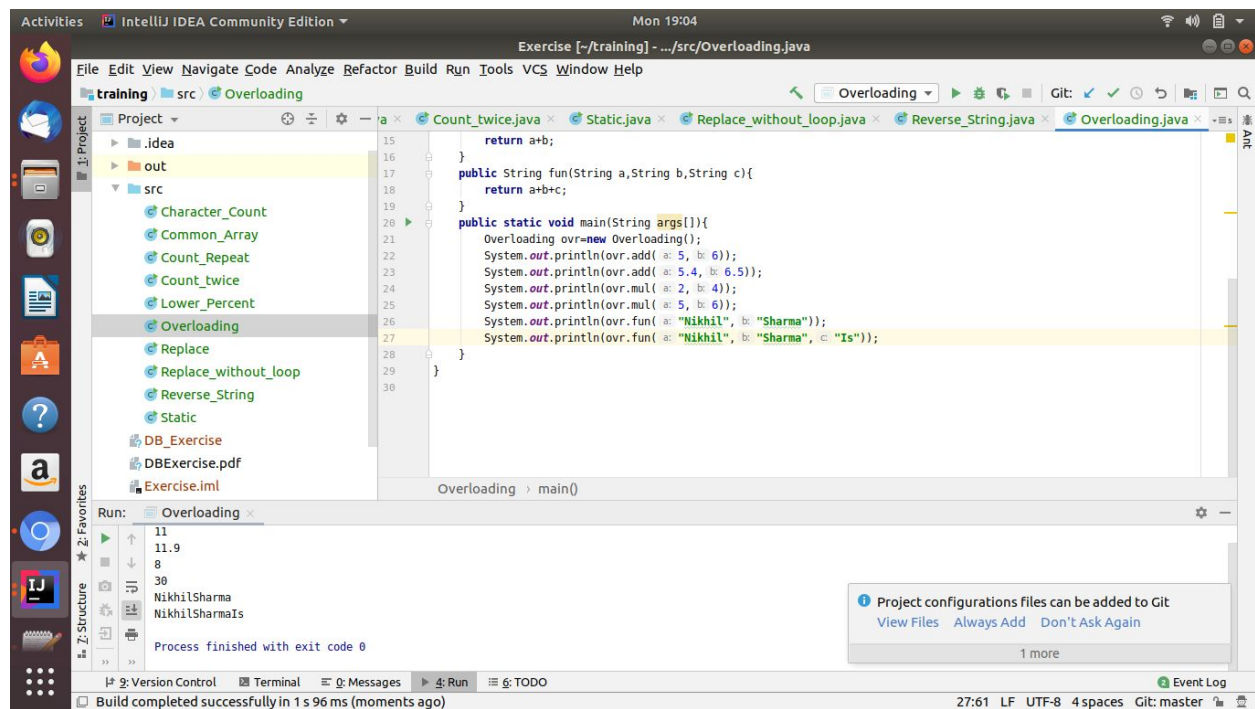
Enum.java:-

```
enum House {
    New_Delhi,Kanpur,Lucknow;
    private House(){
        System.out.println("Constructor Enum:"+this.toString());
    }
}
```

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

Ans.



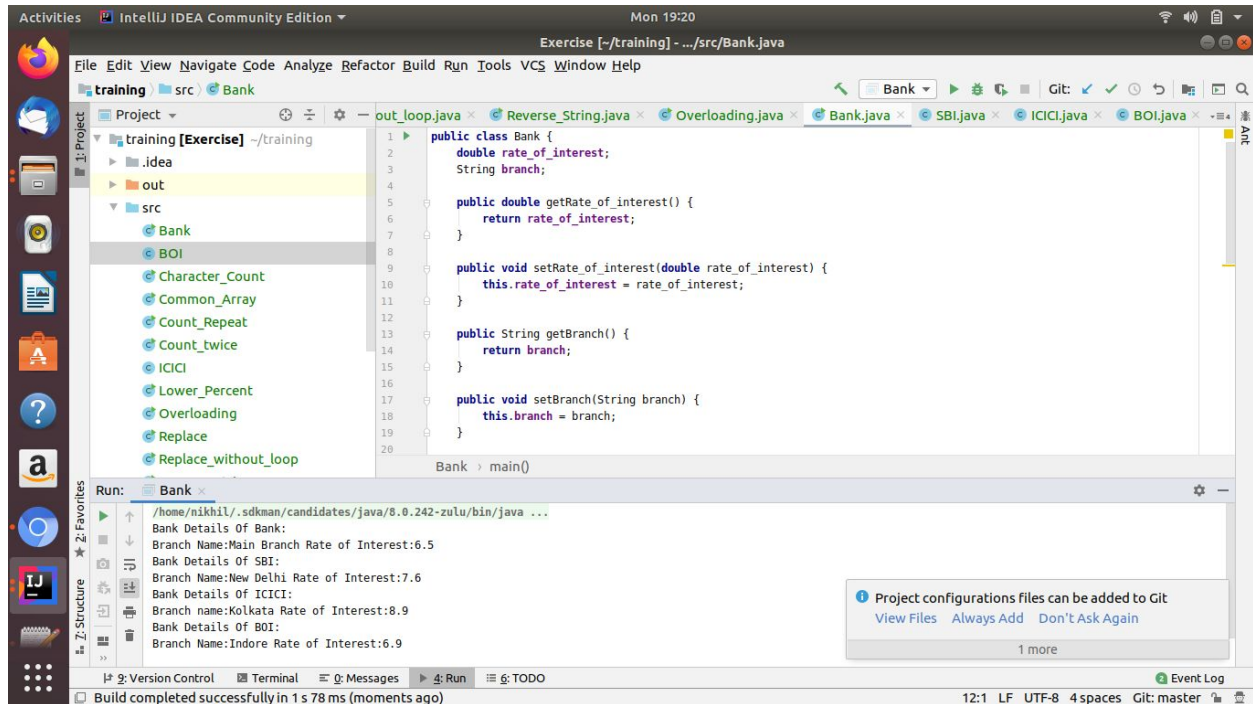
Code:-

```
public class Overloading {
    public int add(int a,int b){
        return a+b;
    }
    public double add(double a,double b){
        return a+b;
    }
    public float mul(float a,float b){
        return a*b;
    }
    public int mul(int a,int b){
        return a*b;
    }
    public String fun(String a, String b){
        return a+b;
    }
    public String fun(String a,String b,String c){
        return a+b+c;
    }
    public static void main(String args[]){
        Overloading ovr=new Overloading();
        System.out.println(ovr.add(5,6));
        System.out.println(ovr.add(5.4,6.5));
        System.out.println(ovr.mul(2,4));
        System.out.println(ovr.mul(5,6));
        System.out.println(ovr.fun("Nikhil", "Sharma"));
        System.out.println(ovr.fun("Nikhil", "Sharma", "Is"));
    }
}
```

```
}  
}
```

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.



Code:-

Bank.java:-

```
public class Bank {  
    double rate_of_interest;  
    String branch;  
  
    public double getRate_of_interest() {  
        return rate_of_interest;  
    }  
  
    public void setRate_of_interest(double rate_of_interest) {  
        this.rate_of_interest = rate_of_interest;  
    }  
  
    public String getBranch() {  
        return branch;  
    }  
  
    public void setBranch(String branch) {  
        this.branch = branch;  
    }  
}
```

```

public static void main(String args[]){
    Bank bank = new Bank();
    SBI sbi = new SBI();
    ICICI icici = new ICICI();
    BOI boi = new BOI();
    bank.setBranch("Main Branch");
    bank.setRate_of_interest(6.5);
    sbi.setBranch("New Delhi");
    sbi.setRate_of_interest(7.6);
    icici.setBranch("Kolkata");
    icici.setRate_of_interest(8.9);
    boi.setBranch("Indore");
    boi.setRate_of_interest(6.9);
    System.out.println("Bank Details Of Bank:");
    System.out.println("Branch Name:"+bank.getBranch()+" Rate of Interest:"+bank.getRate_of_interest());
    System.out.println("Bank Details Of SBI:");
    System.out.println("Branch Name:"+sbi.getBranch()+" Rate of Interest:"+sbi.getRate_of_interest());
    System.out.println("Bank Details Of ICICI:");
    System.out.println("Branch name:"+icici.getBranch()+" Rate of Interest:"+icici.getRate_of_interest());
    System.out.println("Bank Details Of BOI:");
    System.out.println("Branch Name:"+boi.getBranch()+" Rate of Interest:"+boi.getRate_of_interest());

}
}

```

**SBI.java:-**

```

public class SBI {
    double rate_of_interest;
    String branch;

    public double getRate_of_interest() {
        return rate_of_interest;
    }

    public void setRate_of_interest(double rate_of_interest) {
        this.rate_of_interest = rate_of_interest;
    }

    public String getBranch() {
        return branch;
    }

    public void setBranch(String branch) {
        this.branch = branch;
    }
}

```

**ICICI.java:-**

```

public class ICICI {

```

```

double rate_of_interest;
String branch;

public double getRate_of_interest() {
    return rate_of_interest;
}

public void setRate_of_interest(double rate_of_interest) {
    this.rate_of_interest = rate_of_interest;
}

public String getBranch() {
    return branch;
}

public void setBranch(String branch) {
    this.branch = branch;
}
}

```

**BOI.java:-**

```

public class BOI {
    public double getRate_of_interest() {
        return rate_of_interest;
    }

    public void setRate_of_interest(double rate_of_interest) {
        this.rate_of_interest = rate_of_interest;
    }

    public String getBranch() {
        return branch;
    }

    public void setBranch(String branch) {
        this.branch = branch;
    }

    double rate_of_interest;
    String branch;
}

```