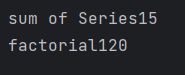
**1.overiding.**

public class sum {  
 public int a,sum=0,i;  
 void get(int a)  
 {  
 for(i=0;i<=a;i++)  
 {  
 sum=sum+i;  
 }  
 }  
}  
class factorials extends sum  
{  
 private int fact=1;  
  
 void get(int a)  
 {  
 for(i=1;i<=a;i++)  
 {  
 fact=fact\*i;  
 }  
 super.get(a);  
 }  
 void display()  
 {  
 System.*out*.println("sum of Series"+sum);  
 System.*out*.println("factorial"+fact);  
 }  
  
 public static void main(String[] args) {  
  
 factorials s=new factorials();  
 s.get(5);  
 s.display();  
 }  
  
}

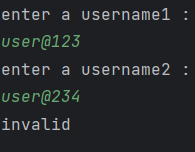
**output.**

****

**2.Username (oops).**

import java.util.\*;  
public class username {  
 String a,b;  
 void get(){  
 Scanner s = new Scanner(System.*in*);  
 System.*out*.println("enter a username1 : ");  
 a=s.nextLine();  
 System.*out*.println("enter a username2 : ");  
 b=s.nextLine();  
  
 if(a.equals(b)){  
 System.*out*.println("valid");  
 }  
 else{  
 System.*out*.println("invalid");  
 }}  
  
 public static void main(String[] args) {  
 username u=new username();  
 u.get();  
 }  
  
}

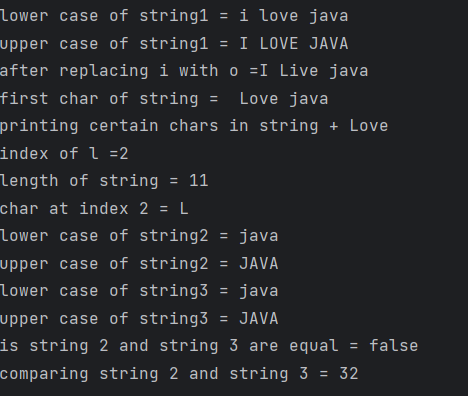
**output.**

****

**3.String operations.**

public class replace {  
 public String s="I Love java";  
  
  
 void get1(){  
  
 System.*out*.println("lower case of string1 = "+s.toLowerCase());  
 System.*out*.println("upper case of string1 = "+s.toUpperCase());  
 System.*out*.println("after replacing i with o ="+s.replace('o','i'));  
 System.*out*.println("first char of string = "+s.substring(1));  
 System.*out*.println("printing certain chars in string + "+s.substring(2,6));  
 System.*out*.println("index of l ="+s.indexOf("L"));  
 System.*out*.println("length of string = "+s.length());  
 System.*out*.println("char at index 2 = "+s.charAt(2));  
  
 }  
}  
class demo extends replace{  
 private String s1="java";  
 private String s2="JAVA";  
 void get2(){  
  
 System.*out*.println("lower case of string2 = "+s1.toLowerCase());  
 System.*out*.println("upper case of string2 = "+s1.toUpperCase());  
  
 }  
 void get3(){  
  
 System.*out*.println("lower case of string3 = "+s2.toLowerCase());  
 System.*out*.println("upper case of string3 = "+s2.toUpperCase());  
  
  
 }  
 void equal(){  
 System.*out*.println("is string 2 and string 3 are equal = "+s1.equals(s2));  
 System.*out*.println("comparing string 2 and string 3 = "+s1.compareTo(s2));  
 }  
  
 public static void main(String[] args) {  
 demo d=new demo();  
 d.get1();  
 d.get2();  
 d.get3();  
 d.equal();  
 }  
}

**output.**

****