// DemoString class

//An object whose state cannot be changed after it is created is known as an Immutable object. String objects are immutable.

/\*

public class DemoString {

public static void main(String[] args) {

String s="hello";

System.out.println(s);

String s1=new String("world");

System.out.println(s1);

char ch[]= {'h','e','l','l','o'};

String s2=new String(ch);

System.out.println(s2);

}

}

\*/

//The String class provides a constructor that parses a char[] array as a parameter and allocates a new String. It represents the sequence of the characters (string).\*/

/\*

public class DemoString {

public static void main(String[] args) {

String s="hello";

System.out.println(s + s.length() );

String s1=new String("world");

System.out.println(s1 + s1.length());

char ch[]= {'h','e','l','l','o'};

String s2=new String(ch);

System.out.println(s2 + s2.length());

}

}

\*/

/\*

public class DemoString {

public static void main(String[] args) {

String s="hello";

System.out.println(s);

s.concat("world");

System.out.println(s);

System.out.println(s.concat("world"));

String s1 = s.concat("World");

System.out.println(s1);

}

}

\*/

//Difference between == and equals()

public class DemoString {

public static void main(String[] args) {

/\*String s = "java";

for(int i=0; i<s.length(); i++)

System.out.println(Character.toUpperCase(s.charAt(i)));

\*/

String s1="hello";//scp

String s2=new String("hello");//heap

System.out.println(s2.equals(s1));

System.out.println(s1==s2);

String s3=new String("helloworld");

System.out.println(s1.compareTo(s3));

System.out.println(s3.substring(1,5));

System.out.println(s3.substring(5));

String s4 = new String(" Student");

System.out.println(s4);

System.out.println(s4.trim());

char ch;

String ns="";

for(int i=0;i<s1.length();i++)

{

ch=s1.charAt(i);

if(Character.isLowerCase(ch))

{

ch=Character.toUpperCase(ch);

ns=ns+ch;

}

}

System.out.println(ns);

System.out.println(s1+10);

}

}

/\*

public class DemoString {

public static void main(String[] args) {

StringBuffer sb=new StringBuffer("hello");

sb.append("world");

System.out.println(sb);

StringBuilder sb1=new StringBuilder("hello");

sb1.append("world");

System.out.println(sb1);

}

}

\*/

// 1.WAP to find whether a String is pallindrom. madam, nitin

/\*2.WAP to assign 6 names in array of string.Print each name in different lines along with count of capital letters

in each name .\*/

//3.WAP to input a name.Convert each letter to its opposite case.print original and modified name.

//4.WAP to accept a string and display the number of uppercase ,number of lowercase character and number of digits in the String.

// s="This is 2022 year"

//5. S="Ajay Kumar Singh"//input

// output A.K.Singh

//6.WAP to accept a string and count the number of times a word occurs in it.

//My book is my

/\*

public class DemoString {

public static void main(String[] args) {

Test ob=new Test();

ob.m();

}

}\*/

//MyString class

public class MyString

{

public static void main(String[] args) {

String name ="";

String s;

System.out.println(name.length());

System.out.println(s);

}

}

//TestStringBuffer class

/\*

public class TestStringBuffer {

public static void main(String[] args) {

StringBuffer str=new StringBuffer("hello");

str.append("Java world at IMCA Pune");

System.out.println(str);

String s=new String("hello");

s.concat("world");

System.out.println(s);

}

}

\*/

class Sum<T>{

T n1;

T n2;

Sum(T n1,T n2)

{

this.n1=n1;

this.n2=n2;

}

void display()

{

System.out.println(n1);

System.out.println(n2);

}

}

public class TestStringBuffer {

public static void main(String[] args) {

Sum<Integer> t=new Sum<Integer>(2,3);

t.display();

Sum<Float> t1=new Sum<Float>(2.2f,3.2f);

t1.display();

}

}

//TestStringDemo class

/\*

public class TestStringDemo {

public static void main(String[] args) {

String s1="Hello";

String s2=new String("world");

char ch[]= {'w','e','l','c','o','m','e'};

String s3=new String(ch);

System.out.println(s1);

System.out.println(s2);

System.out.println(s3);

//String immutable

String s4=s1.concat("Ajay");

System.out.println(s1);

System.out.println(s4);

}

}

\*/

// equals() ,==

public class TestStringDemo {

public static void main(String[] args) {

String s1="Hello";

String s2=new String("Hello");

System.out.println(s1.equals(s2));//content check

System.out.println(s1==s2); // address

String s3="Vijay";

String s4="Ajay";

System.out.println(s3.compareTo(s4));

System.out.println(2+3+"sum"+ 4+5);// 5sum45

String s5="Helloworld12345";

System.out.println(s5.substring(5));

System.out.println(s5.substring(0,5));

System.out.println(s5.toUpperCase());

String s6=s5.toUpperCase();

System.out.println(s6);

System.out.println(s5.startsWith("He"));

System.out.println(s5.endsWith("4"));

s3="Vijay ";

System.out.println(s3.trim());

System.out.println(s3.charAt(2));

int a=5;

String s=String.valueOf(a);

System.out.println(s+10);

}

}