

JAVA- STRINGS METHOD

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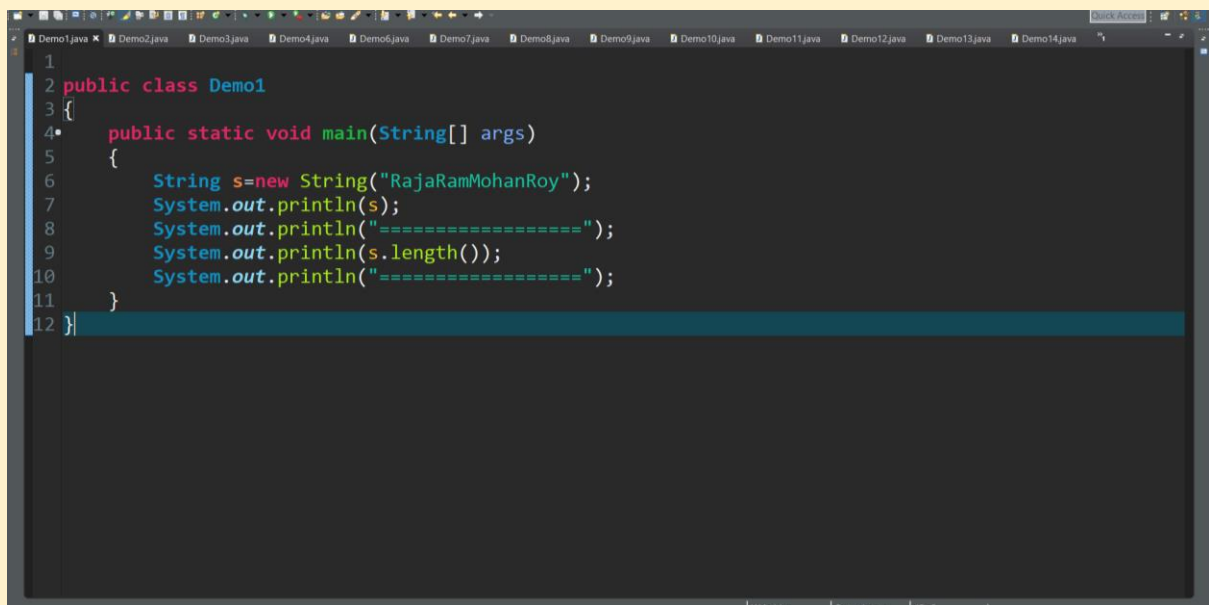
BATCH: NOV-14

JAVA STRING METHODS ASSIGNMENT

Program 1:

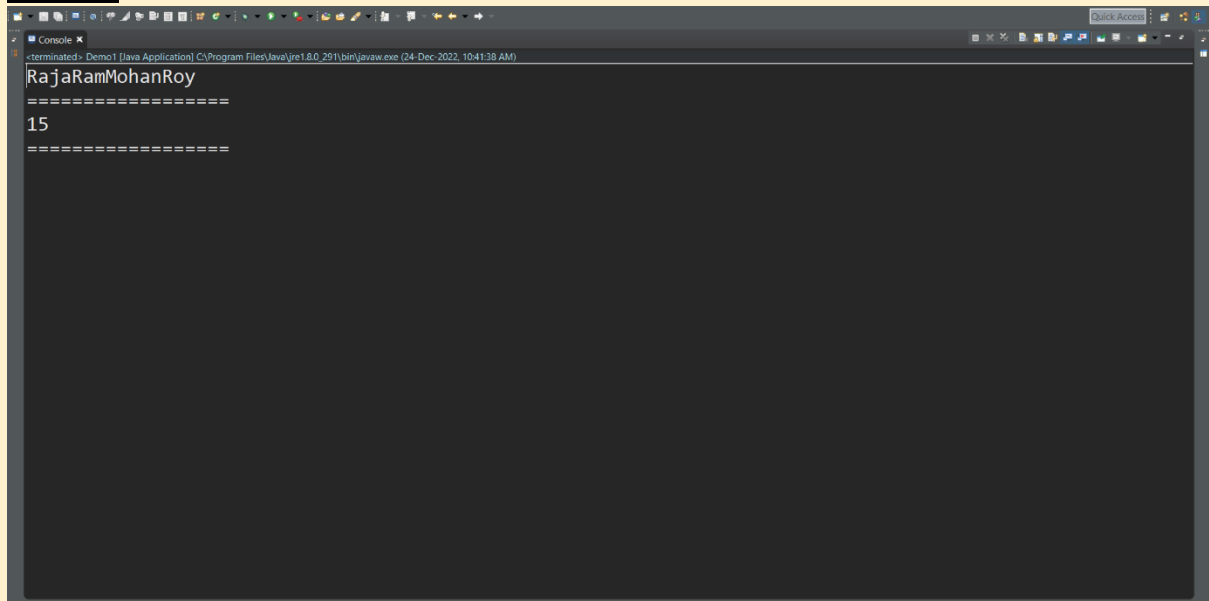
length() : The length of the sequence of characters represented by this object.

```
public class Demo1
{
    public static void main(String[] args)
    {
        String s=new String("RajaRamMohanRoy");
        System.out.println(s);
        System.out.println("=====");
        System.out.println(s.length());
        System.out.println("=====");
    }
}
```

A screenshot of an IDE window showing the Java code for Program 1. The code is identical to the one shown in the text block above. The IDE has a dark theme and shows multiple tabs for Demo1.java through Demo14.java. The code is highlighted with syntax coloring: keywords in blue, strings in red, and identifiers in green. The output area at the bottom is empty.

```
1 public class Demo1
2 {
3     public static void main(String[] args)
4     {
5         String s=new String("RajaRamMohanRoy");
6         System.out.println(s);
7         System.out.println("=====");
8         System.out.println(s.length());
9         System.out.println("=====");
10    }
11 }
12 }
```

Output :

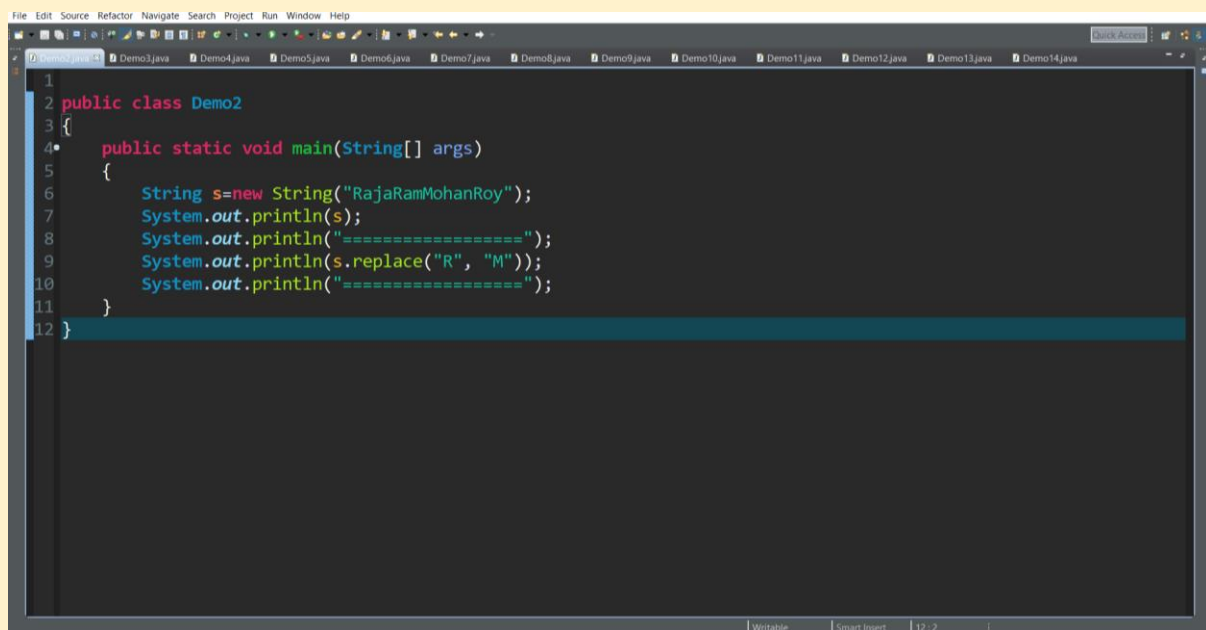
A screenshot of a Java console application window. The title bar reads "Console x" and the window content shows the output of a Java program. The output consists of the name "RajaRamMohanRoy" followed by a line of 15 equals signs, the number "15", and another line of 15 equals signs. The window's title bar also includes a "Quick Access" button and standard window controls. The status bar at the bottom of the window indicates the application path and the time: "C:\Program Files\Java\jre1.8.0_291\bin\javaw.exe (24-Dec-2022, 10:41:38 AM)".

```
<terminated> Demo1 [Java Application] C:\Program Files\Java\jre1.8.0_291\bin\javaw.exe (24-Dec-2022, 10:41:38 AM)
RajaRamMohanRoy
=====
15
=====
```

Program 2:

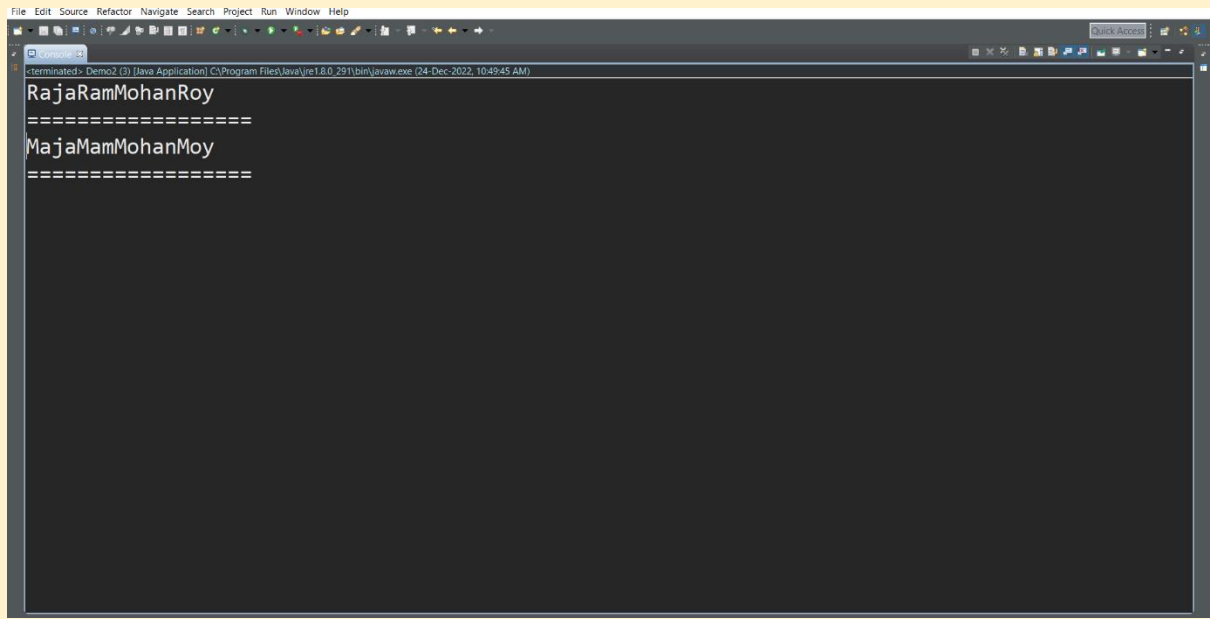
replace(target, replacement) : Replaces each substring of this string that matches the literal target sequence with the specified literal replacement sequence. The replacement proceeds from the beginning of the string to the end.

```
public class Demo2
{
    public static void main(String[] args)
    {
        String s=new String("RajaRamMohanRoy");
        System.out.println(s);
        System.out.println("=====");
        System.out.println(s.replace("R", "M"));
        System.out.println("=====");
    }
}
```

A screenshot of an IDE window showing the Java code for Program 2. The code is identical to the one in the previous block. The IDE has a dark theme, and the code is color-coded. The file name 'Demo2.java' is visible in the tab bar. The code is as follows:

```
1 public class Demo2
2 {
3     public static void main(String[] args)
4     {
5         String s=new String("RajaRamMohanRoy");
6         System.out.println(s);
7         System.out.println("=====");
8         System.out.println(s.replace("R", "M"));
9         System.out.println("=====");
10    }
11 }
12 }
```

Output :

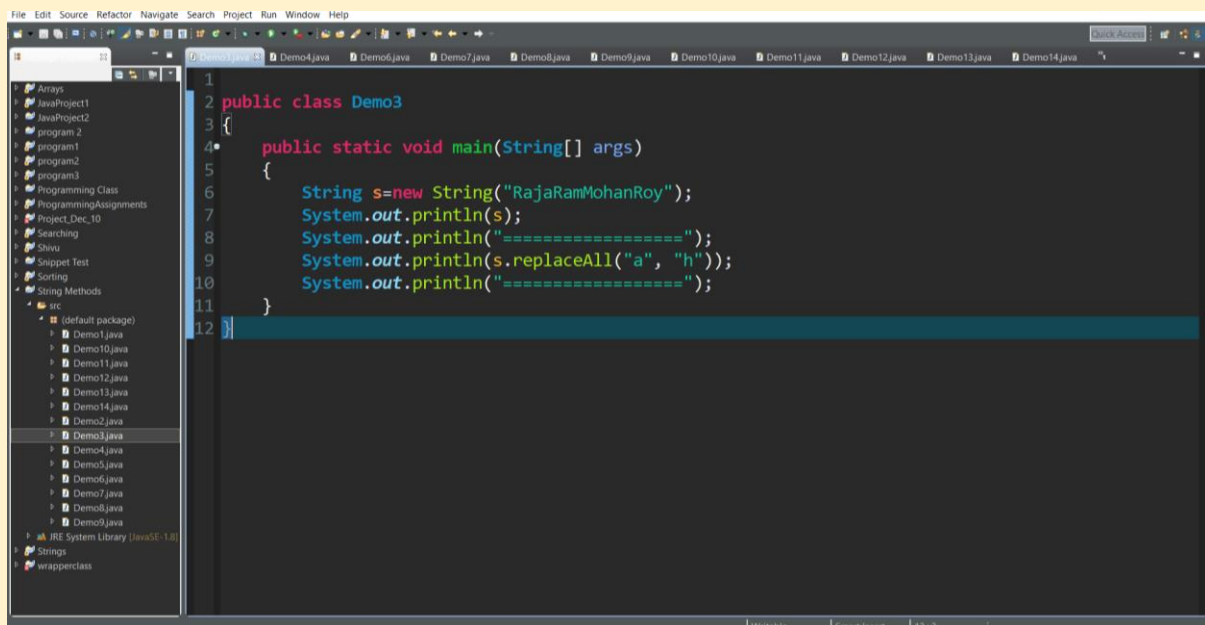


```
terminated> Demo2 (3) [Java Application] C:\Program Files\Java\jre1.8.0_291\bin\javaw.exe (24-Dec-2022, 10:45:45 AM)
RajaRamMohanRoy
=====
MajaMamMohanMoy
=====
```

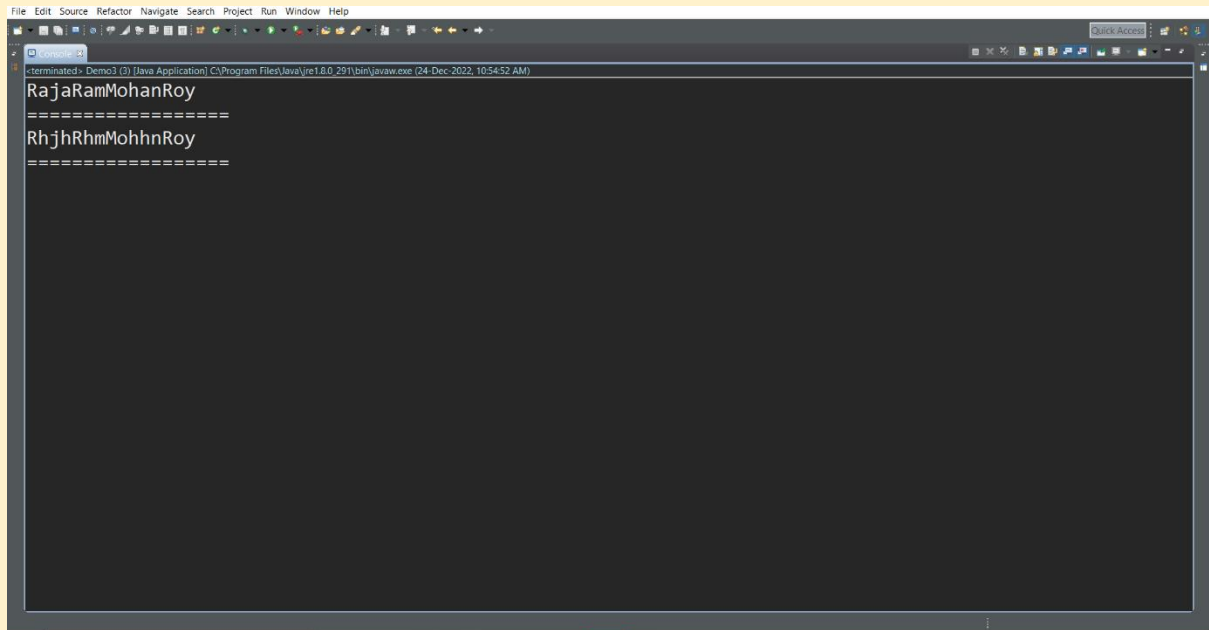
Program 3:

replaceAll(regex, replacement) : Replaces each substring of this string that matches the given regular expression with the given replacement. An invocation of this method of the form *str.replaceAll(regex, repl)* yields exactly the same result as the expression.

```
public class Demo3
{
    public static void main(String[] args)
    {
        String s=new String("RajaRamMohanRoy");
        System.out.println(s);
        System.out.println("=====");
        System.out.println(s.replaceAll("a", "h"));
        System.out.println("=====");
    }
}
```



Output :



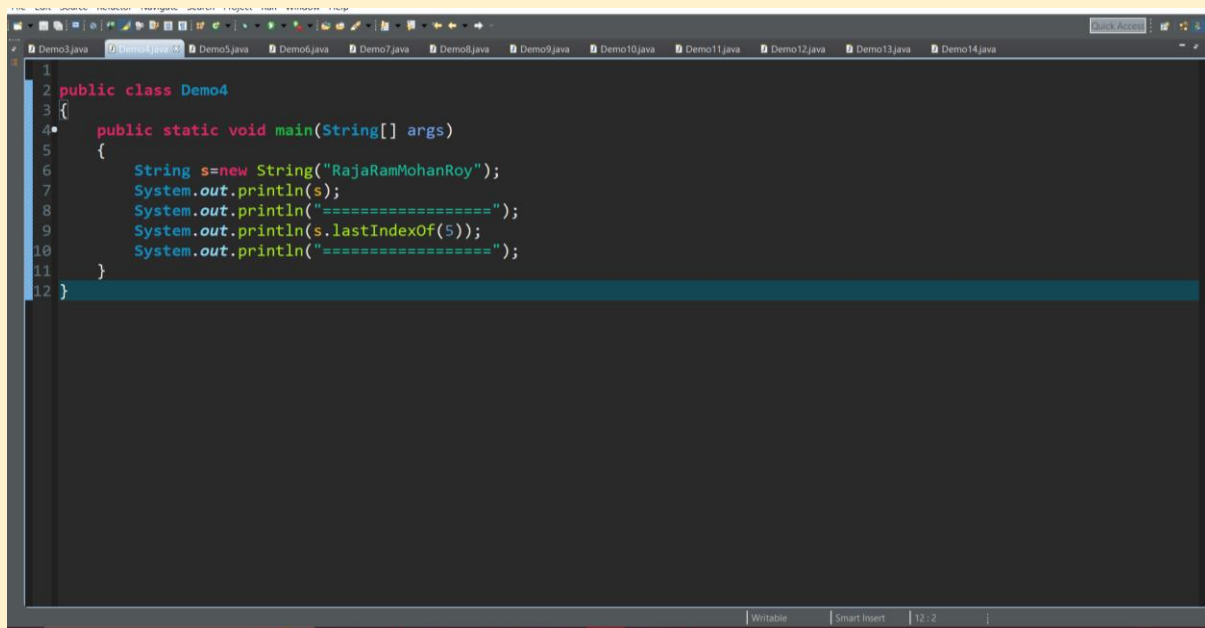
The screenshot shows a Java IDE window titled "Demo3 (3) [Java Application] C:\Program Files\Java\jre1.8.0_291\bin\javaw.exe (24-Dec-2022, 10:54:52 AM)". The console output displays the name "RajaRamMohanRoy" followed by a line of 10 equals signs, then "RhjhRhMohhnRoy" followed by another line of 10 equals signs.

```
terminated - Demo3 (3) [Java Application] C:\Program Files\Java\jre1.8.0_291\bin\javaw.exe (24-Dec-2022, 10:54:52 AM)
RajaRamMohanRoy
=====
RhjhRhMohhnRoy
=====
```

Program 4:

lastIndexOf(int ch) : The index of the last occurrence of the character in the character sequence represented by this object, or -1 if the character does not occur.

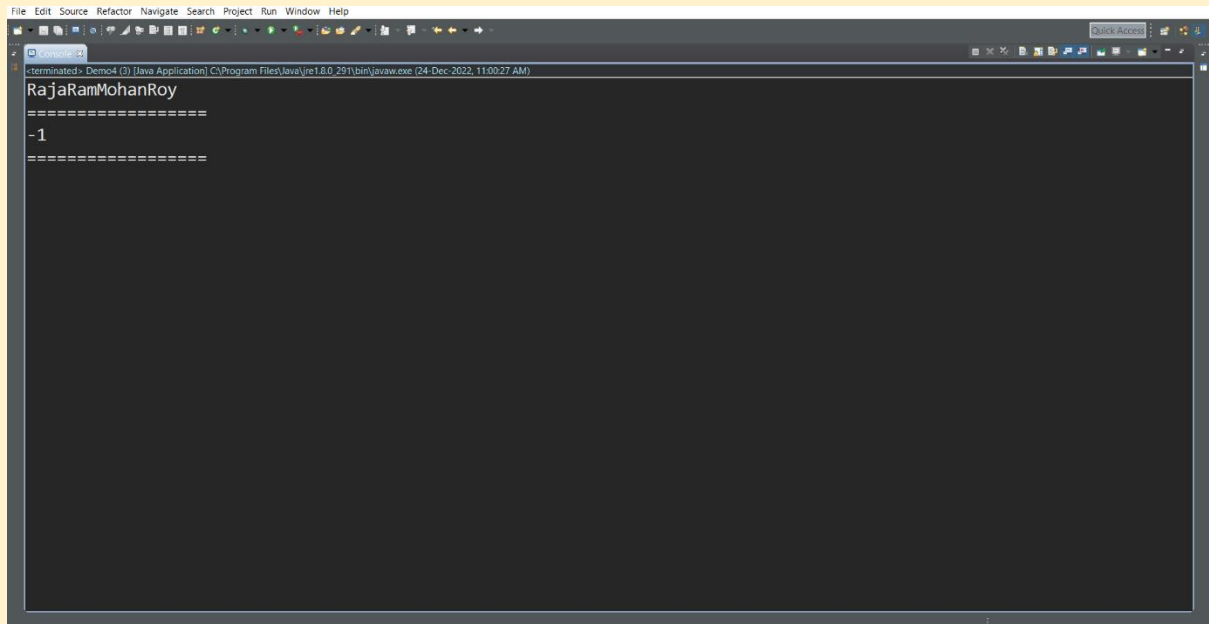
```
public class Demo4
{
    public static void main(String[] args)
    {
        String s=new String("RajaRamMohanRoy");
        System.out.println(s);
        System.out.println("=====");
        System.out.println(s.lastIndexOf(5));
        System.out.println("=====");
    }
}
```

A screenshot of an IDE window showing the Java code for Program 4. The code is as follows:

```
1 public class Demo4
2 {
3     public static void main(String[] args)
4     {
5         String s=new String("RajaRamMohanRoy");
6         System.out.println(s);
7         System.out.println("=====");
8         System.out.println(s.lastIndexOf(5));
9         System.out.println("=====");
10    }
11 }
12 }
```

The IDE has a dark theme and shows multiple tabs at the top, with 'Demo4.java' selected. The status bar at the bottom indicates 'Writable', 'Smart Insert', and '12:2'.

Output :



The screenshot shows a Java IDE window titled "Demo4 (3) [Java Application] C:\Program Files\Java\jre1.8.0_291\bin\javaw.exe (24-Dec-2022, 11:00:27 AM)". The console output is as follows:

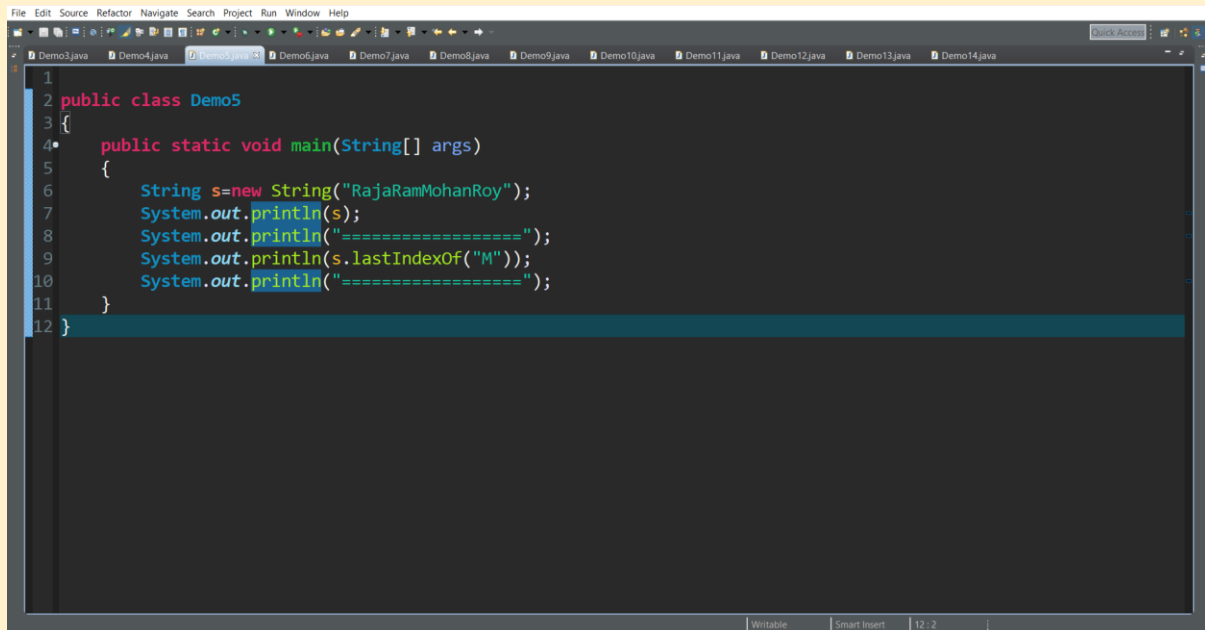
```
RajaRamMohanRoy  
=====
```

The output consists of the name "RajaRamMohanRoy" followed by a line of 10 equals signs. The rest of the console is empty.

Program 5:

lastIndexOf(String str) : The index of the last occurrence of the specified substring, or -1 if there is no such occurrence.

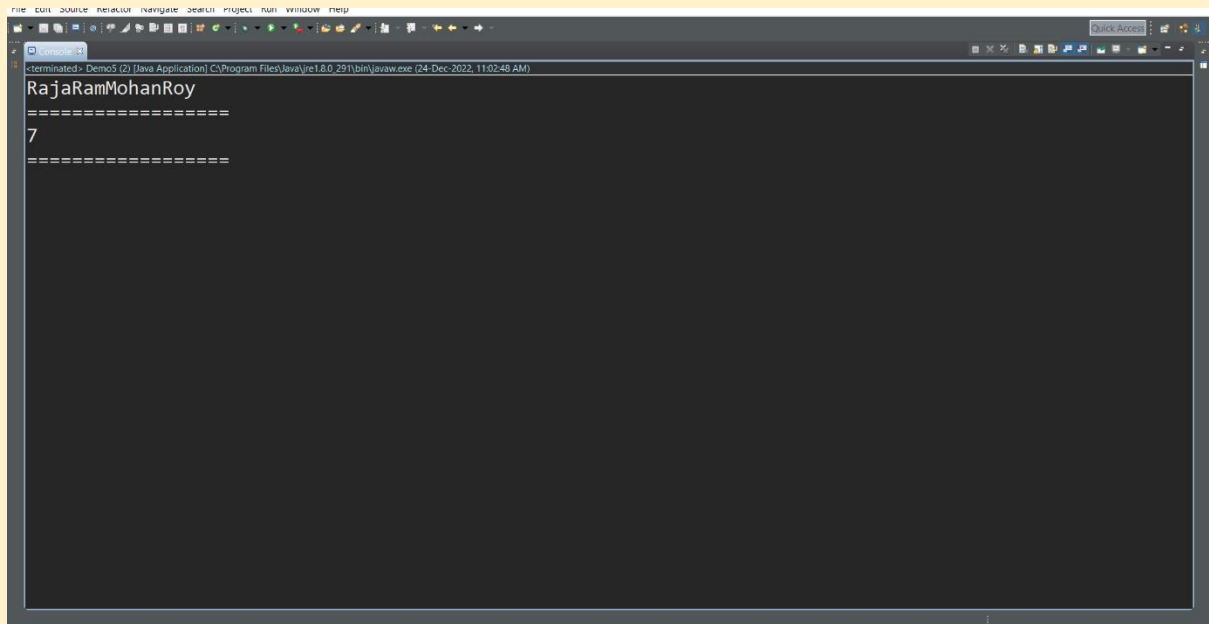
```
public class Demo5
{
    public static void main(String[] args)
    {
        String s=new String("RajaRamMohanRoy");
        System.out.println(s);
        System.out.println("=====");
        System.out.println(s.lastIndexOf("M"));
        System.out.println("=====");
    }
}
```

A screenshot of an IDE window showing the Java code for Program 5. The code is as follows:

```
1 public class Demo5
2 {
3     public static void main(String[] args)
4     {
5         String s=new String("RajaRamMohanRoy");
6         System.out.println(s);
7         System.out.println("=====");
8         System.out.println(s.lastIndexOf("M"));
9         System.out.println("=====");
10    }
11 }
12 }
```

The IDE interface includes a menu bar (File, Edit, Source, Refactor, Navigate, Search, Project, Run, Window, Help), a toolbar, and a tab bar at the top with multiple tabs labeled Demo3.java through Demo14.java. The status bar at the bottom shows 'Writable', 'Smart Insert', and '12 : 2'.

Output :



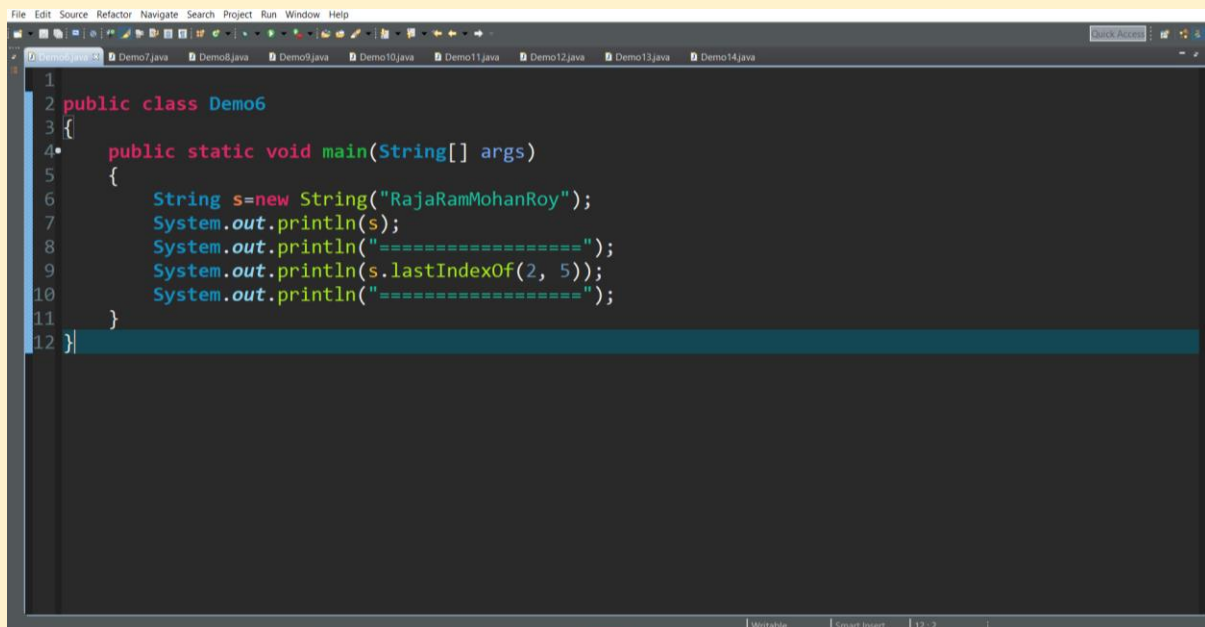
The screenshot shows a Java IDE window titled "Demo5 (2) [Java Application] C:\Program Files\Java\jre1.8.0_291\bin\javaw.exe (24-Dec-2022, 11:02:48 AM)". The console output is as follows:

```
<terminated> Demo5 (2) [Java Application] C:\Program Files\Java\jre1.8.0_291\bin\javaw.exe (24-Dec-2022, 11:02:48 AM)
RajaRamMohanRoy
=====
7
=====
```

Program 6:

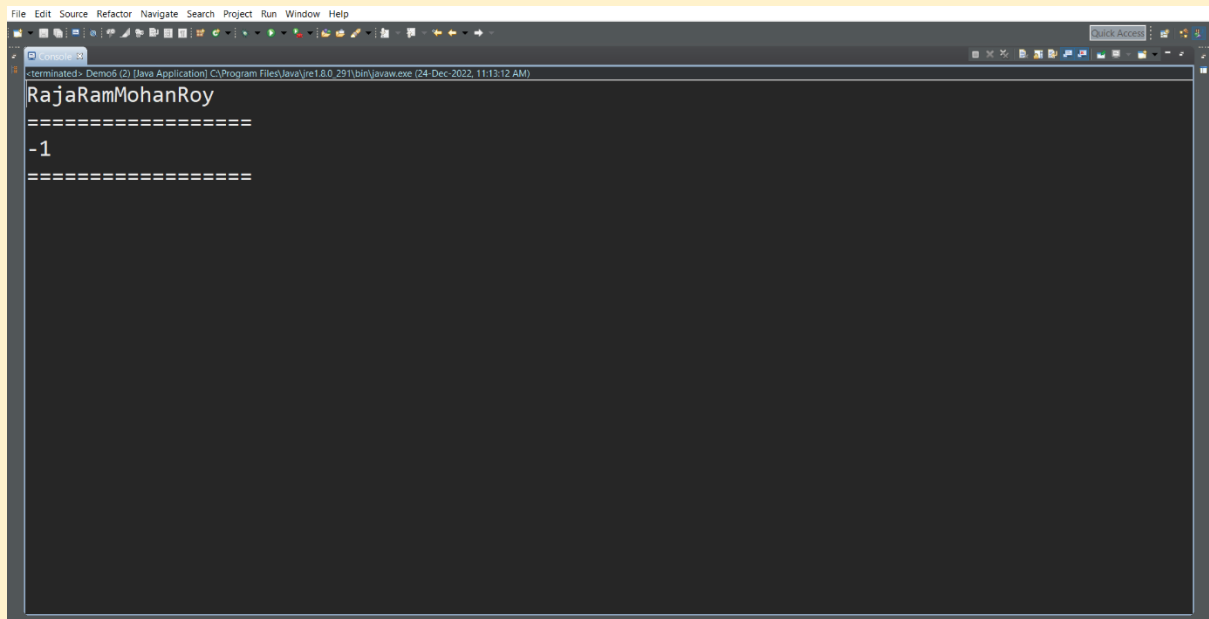
lastIndexOf(int ch, int fromIndex) : The index of the last occurrence of the character in the character sequence represented by this object that is less than or equal to from Index, or -1 if the character does not occur before that point.

```
public class Demo6
{
    public static void main(String[] args)
    {
        String s=new String("RajaRamMohanRoy");
        System.out.println(s);
        System.out.println("=====");
        System.out.println(s.lastIndexOf(2, 5));
        System.out.println("=====");
    }
}
```

A screenshot of an IDE window showing the Java code for Demo6. The code is identical to the one in the previous block. The IDE has a dark theme, and the code is color-coded. The window title bar shows 'Quick Access' and several tabs for Demo7.java through Demo14.java. The status bar at the bottom indicates 'Writable', 'Smart Insert', and '12:2'.

```
1 public class Demo6
2 {
3     public static void main(String[] args)
4     {
5         String s=new String("RajaRamMohanRoy");
6         System.out.println(s);
7         System.out.println("=====");
8         System.out.println(s.lastIndexOf(2, 5));
9         System.out.println("=====");
10    }
11 }
12 }
```

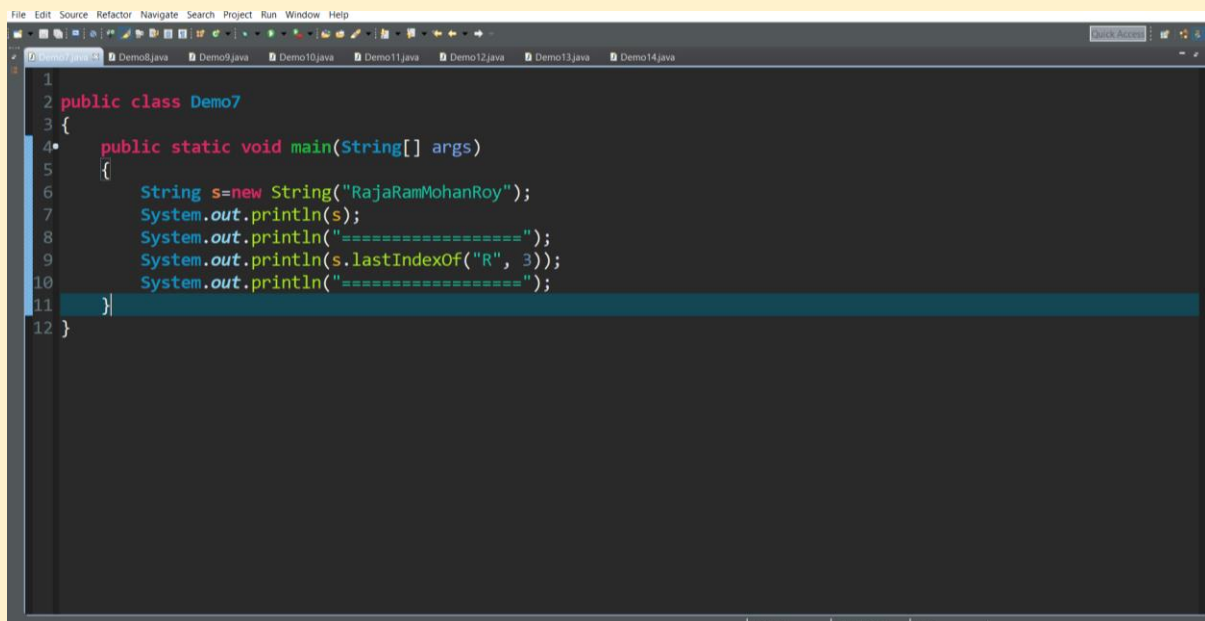
Output :



Program 7:

lastIndexOf(String str, int fromIndex) : Returns the index within this string of the last occurrence of the specified substring, searching backward starting at the specified index.

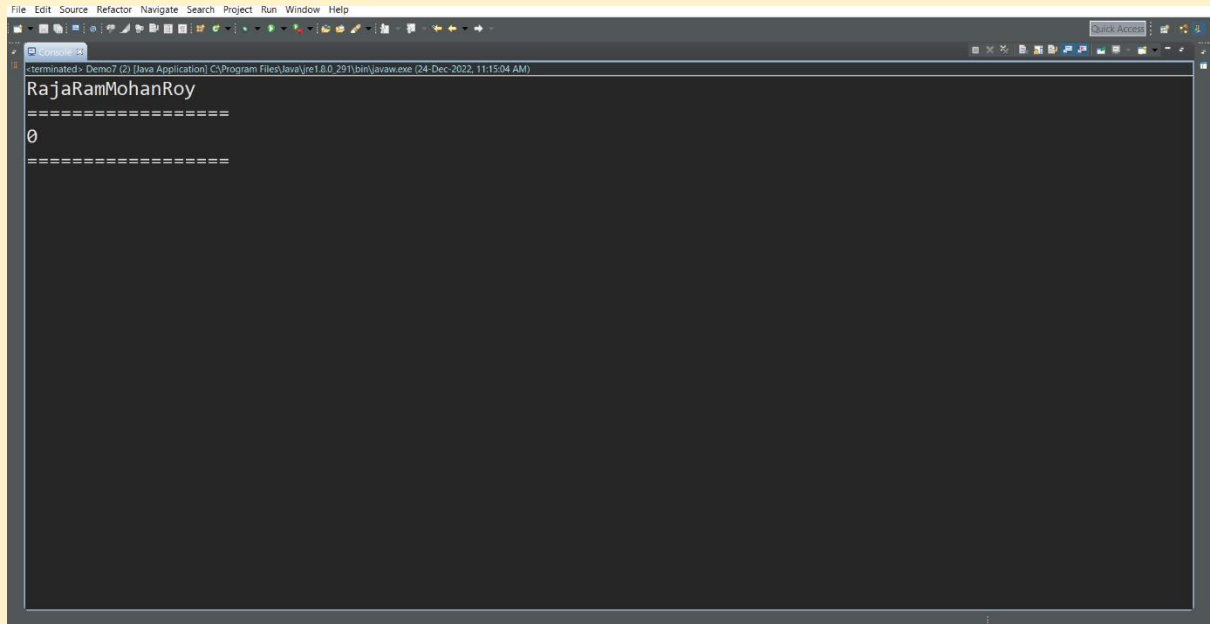
```
public class Demo7
{
    public static void main(String[] args)
    {
        String s=new String("RajaRamMohanRoy");
        System.out.println(s);
        System.out.println("=====");
        System.out.println(s.lastIndexOf("R", 3));
        System.out.println("=====");
    }
}
```

A screenshot of an IDE window showing the Java code for Program 7. The code is as follows:

```
1 public class Demo7
2 {
3     public static void main(String[] args)
4     {
5         String s=new String("RajaRamMohanRoy");
6         System.out.println(s);
7         System.out.println("=====");
8         System.out.println(s.lastIndexOf("R", 3));
9         System.out.println("=====");
10    }
11 }
12 }
```

The IDE interface includes a menu bar (File, Edit, Source, Refactor, Navigate, Search, Project, Run, Window, Help), a toolbar, and a project explorer on the left showing a package named 'Demo' with files Demo8.java through Demo14.java. The status bar at the bottom indicates 'Workspace', 'Script Input', and 'JDK 6'.

Output :



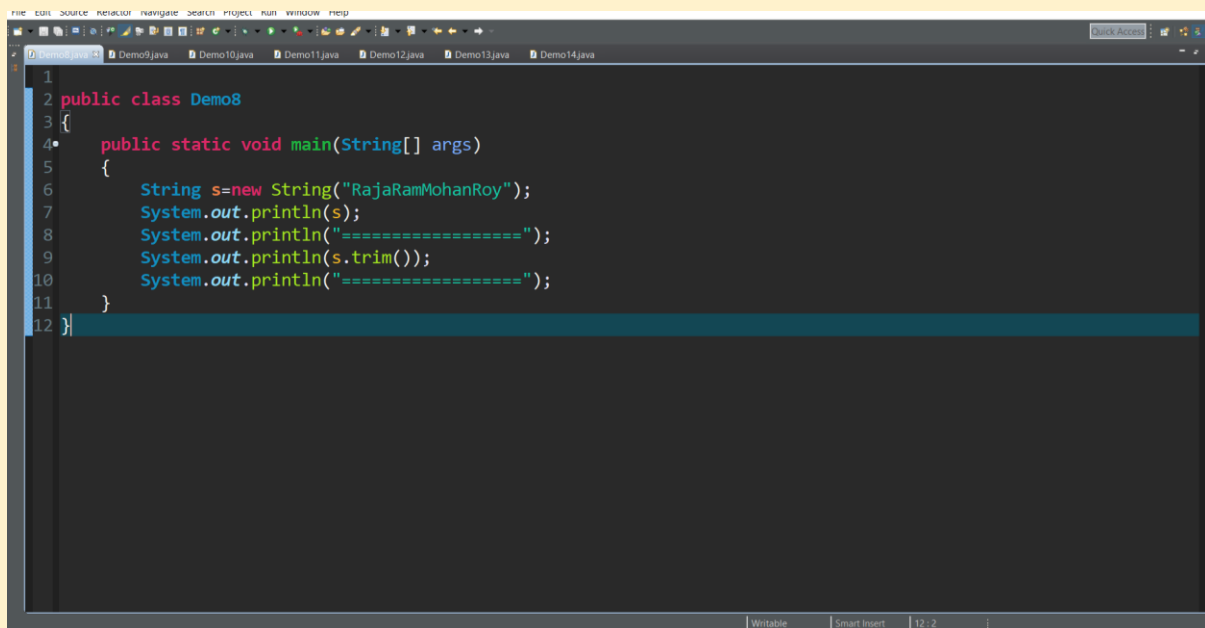
The screenshot shows a Java IDE window titled "Demo7 (2) [Java Application] C:\Program Files\Java\jre1.8.0_291\bin\javaw.exe (24-Dec-2022, 11:15:04 AM)". The console output is as follows:

```
terminated> Demo7 (2) [Java Application] C:\Program Files\Java\jre1.8.0_291\bin\javaw.exe (24-Dec-2022, 11:15:04 AM)
RajaRamMohanRoy
=====
0
=====
```

Program 8:

trim() : A string whose value is this string, with any leading and trailing white space removed, or this string if it has no leading or trailing white space.

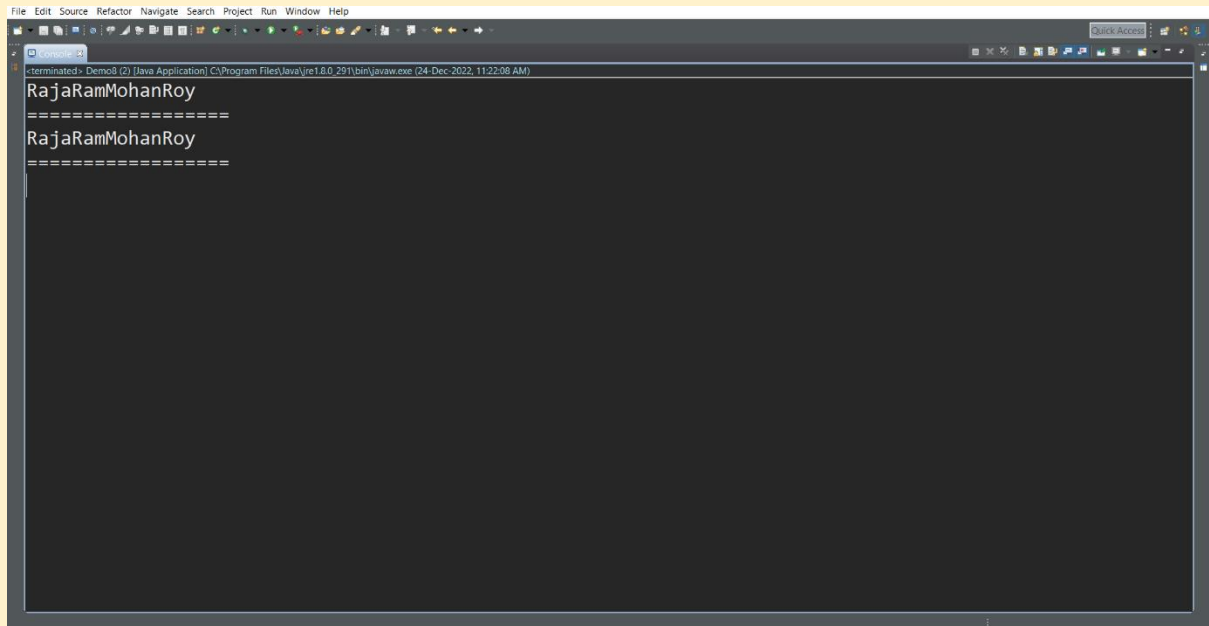
```
public class Demo8
{
    public static void main(String[] args)
    {
        String s=new String("RajaRamMohanRoy");
        System.out.println(s);
        System.out.println("=====");
        System.out.println(s.trim());
        System.out.println("=====");
    }
}
```

A screenshot of an IDE window showing the Java code for Program 8. The code is as follows:

```
1 public class Demo8
2 {
3     public static void main(String[] args)
4     {
5         String s=new String("RajaRamMohanRoy");
6         System.out.println(s);
7         System.out.println("=====");
8         System.out.println(s.trim());
9         System.out.println("=====");
10    }
11 }
12 }
```

The IDE has a dark theme and shows several tabs at the top: Demo9.java, Demo10.java, Demo11.java, Demo12.java, Demo13.java, and Demo14.java. The status bar at the bottom indicates 'Writable', 'Smart Insert', and '12:2'.

Output :



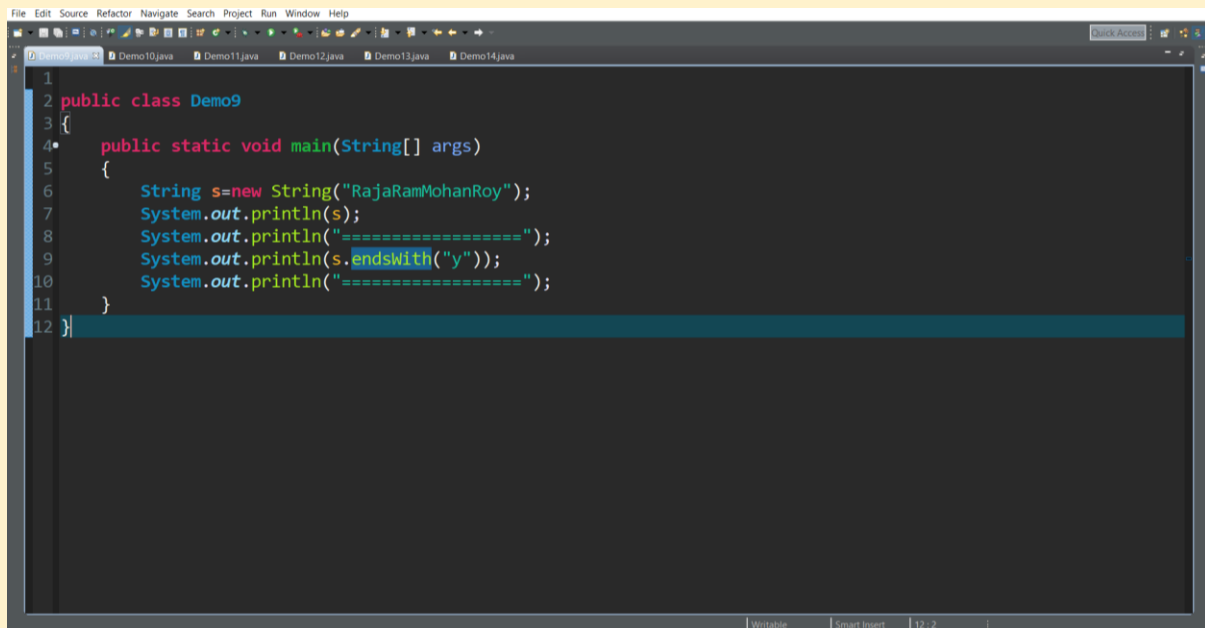
The screenshot shows a Java IDE window titled "Demo0 (2) [Java Application] C:\Program Files\Java\jre1.8.0_291\bin\javaw.exe (24-Dec-2022, 11:22:08 AM)". The console output is as follows:

```
RajaRamMohanRoy
=====
RajaRamMohanRoy
=====
```

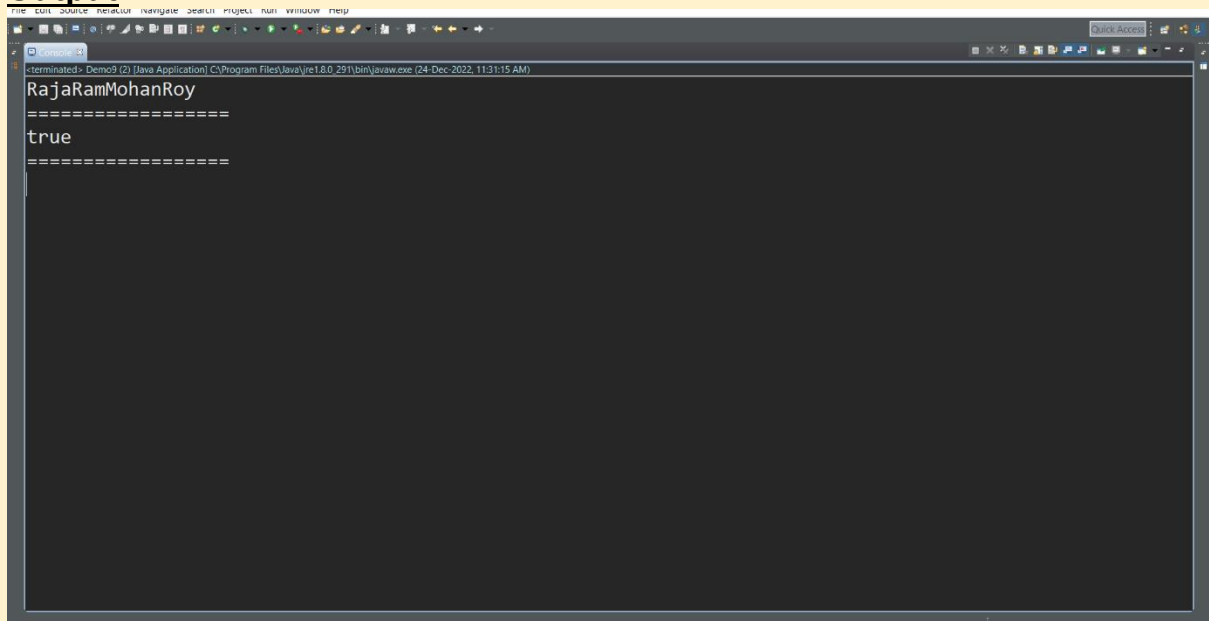
Program 9:

endsWith(String suffix) : true if the character sequence represented by the argument is a suffix of the character sequence represented by this object; false otherwise.

```
public class Demo9
{
    public static void main(String[] args)
    {
        String s=new String("RajaRamMohanRoy");
        System.out.println(s);
        System.out.println("=====");
        System.out.println(s.endsWith("y"));
        System.out.println("=====");
    }
}
```

A screenshot of an IDE window showing the Java code for Demo9. The code is identical to the one in the previous block. The IDE has a menu bar (File, Edit, Source, Refactor, Navigate, Search, Project, Run, Window, Help) and a toolbar. The code editor shows line numbers 1 through 12. The output console is empty. The status bar at the bottom indicates 'Writable', 'Smart Insert', and '12 : 2'.

Output :



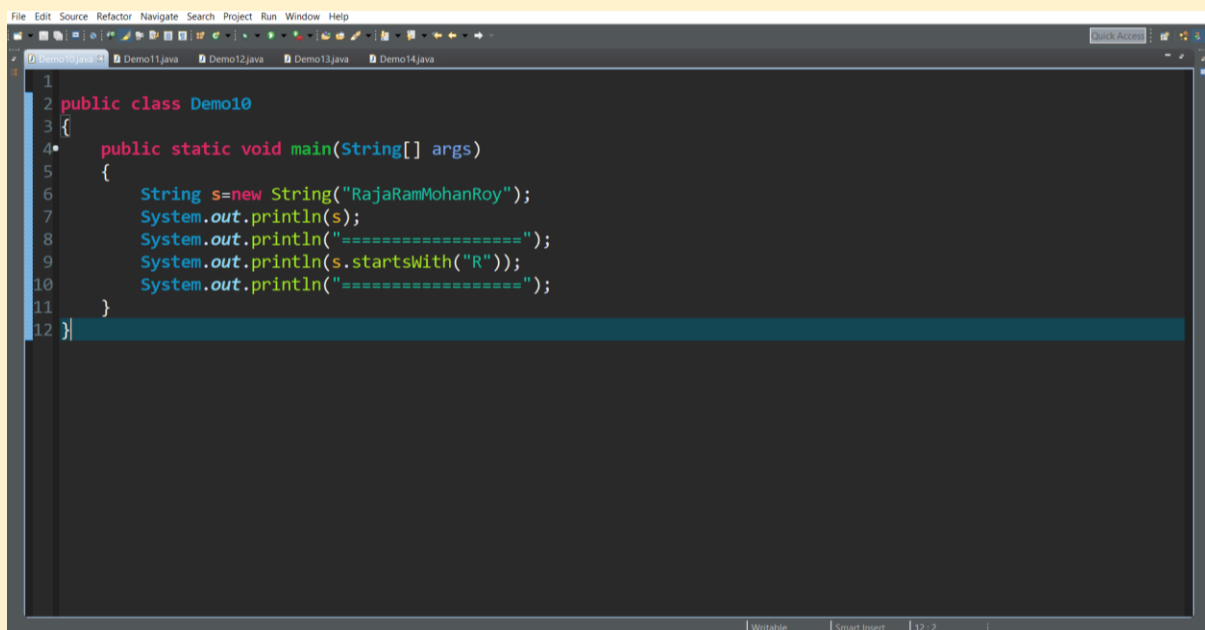
The screenshot shows a Java IDE window with a console output. The console title is "Console". The output text is as follows:

```
<terminated> Demo9 (2) [Java Application] C:\Program Files\Java\jre1.8.0_291\bin\javaw.exe (24-Dec-2022, 11:31:15 AM)
RajaRamMohanRoy
=====
true
=====
```

Program 10:

startsWith(String prefix) : true if the character sequence represented by the argument is a prefix of the character sequence represented by this string; false otherwise.

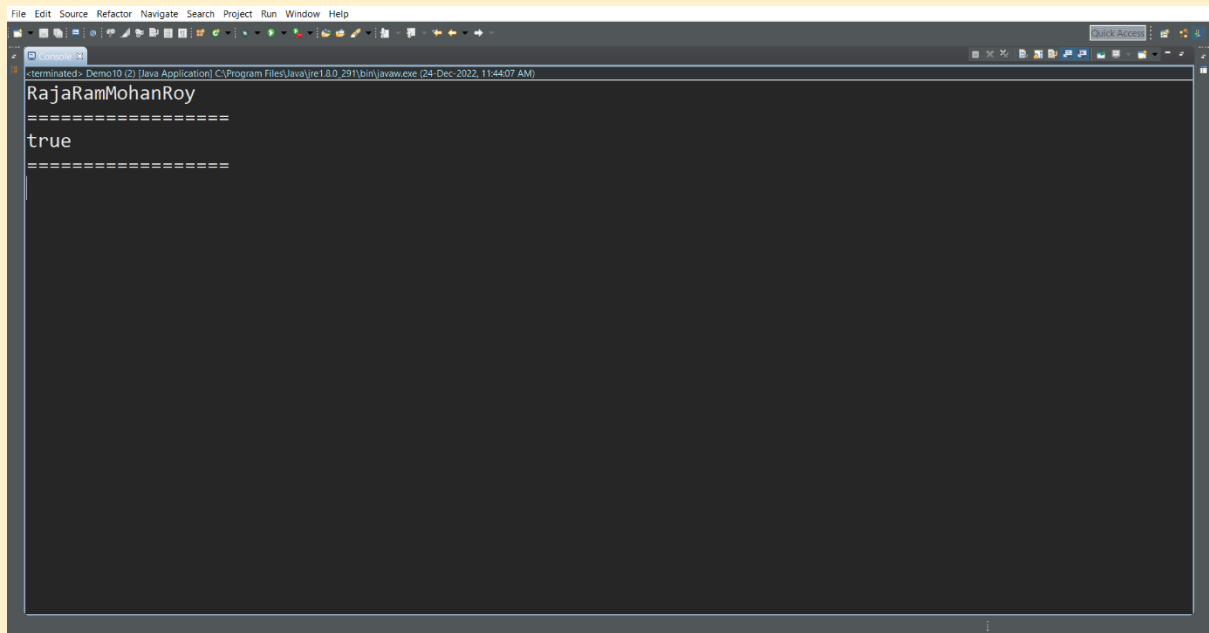
```
public class Demo10
{
    public static void main(String[] args)
    {
        String s=new String("RajaRamMohanRoy");
        System.out.println(s);
        System.out.println("=====");
        System.out.println(s.startsWith("R"));
        System.out.println("=====");
    }
}
```

A screenshot of an IDE window showing the Java code for Program 10. The code is displayed in a dark-themed editor with line numbers 1 through 12 on the left. The code is as follows:

```
1 public class Demo10
2 {
3     public static void main(String[] args)
4     {
5         String s=new String("RajaRamMohanRoy");
6         System.out.println(s);
7         System.out.println("=====");
8         System.out.println(s.startsWith("R"));
9         System.out.println("=====");
10    }
11 }
12 }
```

The IDE interface includes a menu bar at the top with options like File, Edit, Source, Refactor, Navigate, Search, Project, Run, Window, and Help. Below the menu bar is a toolbar with various icons. The bottom status bar shows 'Writable', 'Smart Insert', and '12 : 2'.

Output :



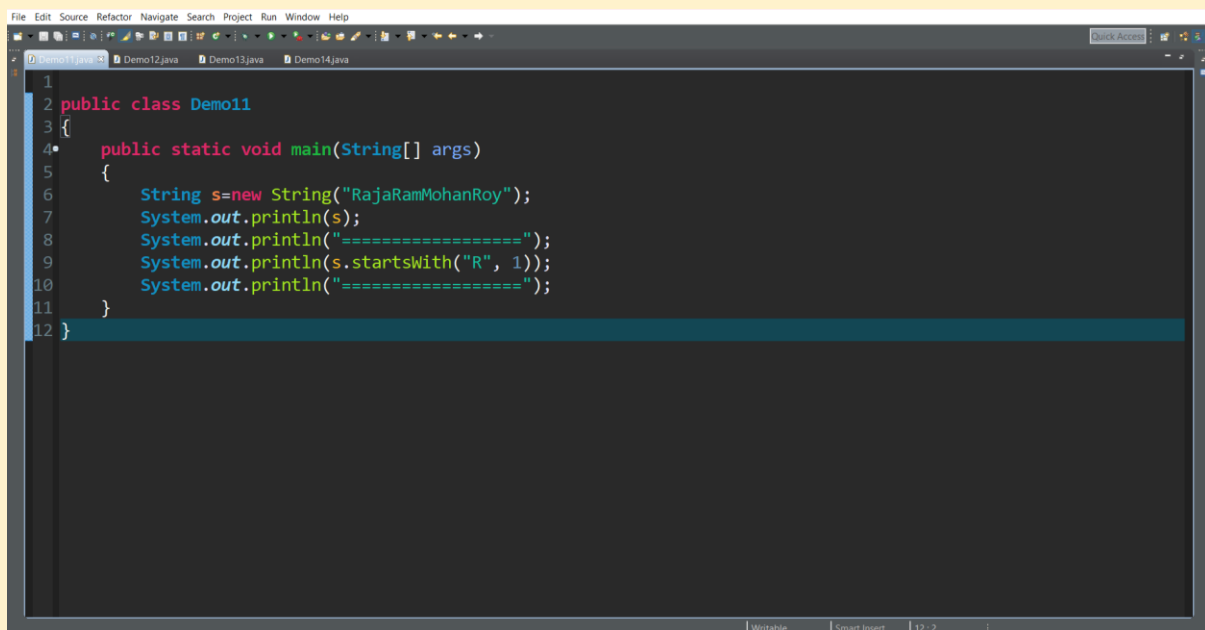
The screenshot shows a Java IDE window titled "Demo10 (2) [Java Application] C:\Program Files\Java\jre1.8.0_291\bin\javaw.exe (24-Dec-2022, 11:44:07 AM)". The output console displays the following text:

```
RajaRamMohanRoy
=====
true
=====
```

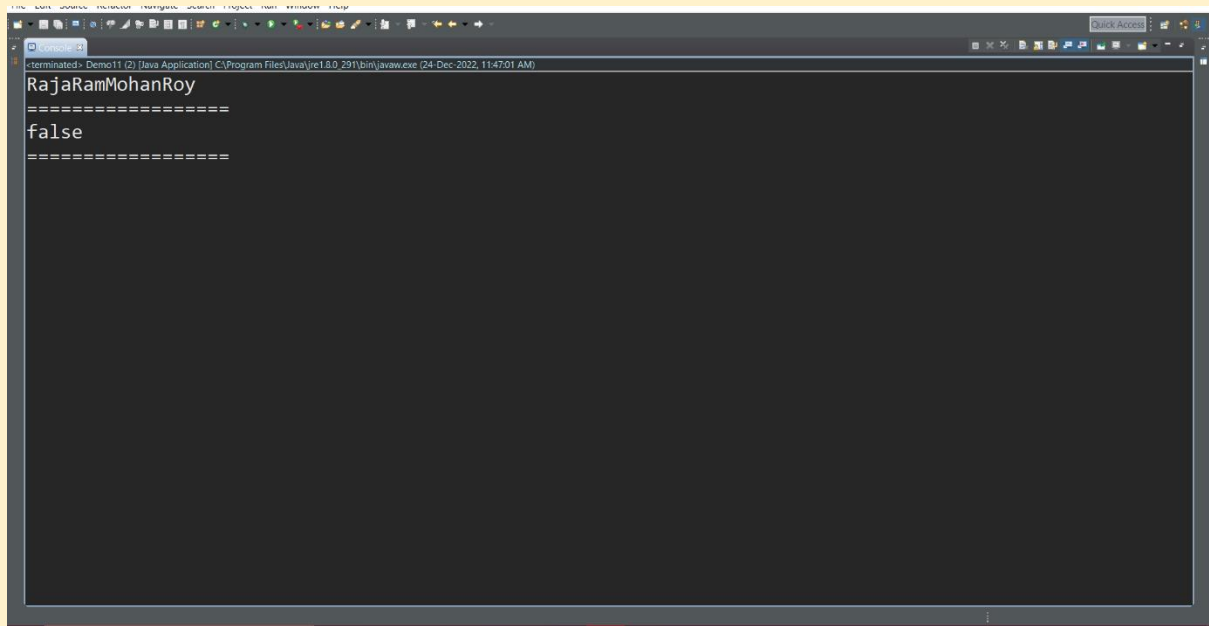
Program 11:

startsWith(String prefix, int toffset) : true if the character sequence represented by the argument is a prefix of the substring of this object starting at index toffset; false otherwise. The result is false if toffset is negative or greater than the length of this String object; otherwise the result is the same as the result of the expression.

```
public class Demo11
{
    public static void main(String[] args)
    {
        String s=new String("RajaRamMohanRoy");
        System.out.println(s);
        System.out.println("=====");
        System.out.println(s.startsWith("R", 1));
        System.out.println("=====");
    }
}
```

A screenshot of an IDE window showing the Java code for Program 11. The code is identical to the one provided in the text block. The IDE has a menu bar (File, Edit, Source, Refactor, Navigate, Search, Project, Run, Window, Help) and a toolbar. The code editor shows line numbers 1 through 12. The output console is empty. The status bar at the bottom shows 'Writeable', 'Smart Insert', and '12:2'.

Output :



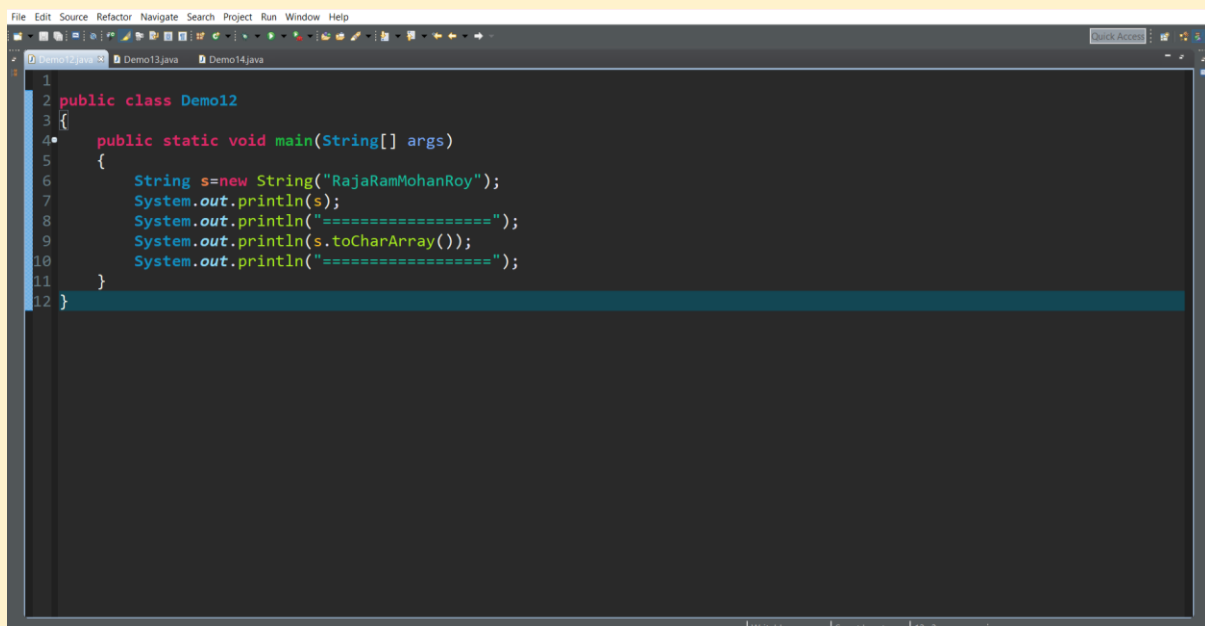
The screenshot shows a Java application window titled "Demo11 (2) [Java Application] C:\Program Files\Java\jre1.8.0_291\bin\javaw.exe (24 Dec 2022, 11:47:01 AM)". The output area displays the following text:

```
RajaRamMohanRoy
=====
false
=====
```

Program 12:

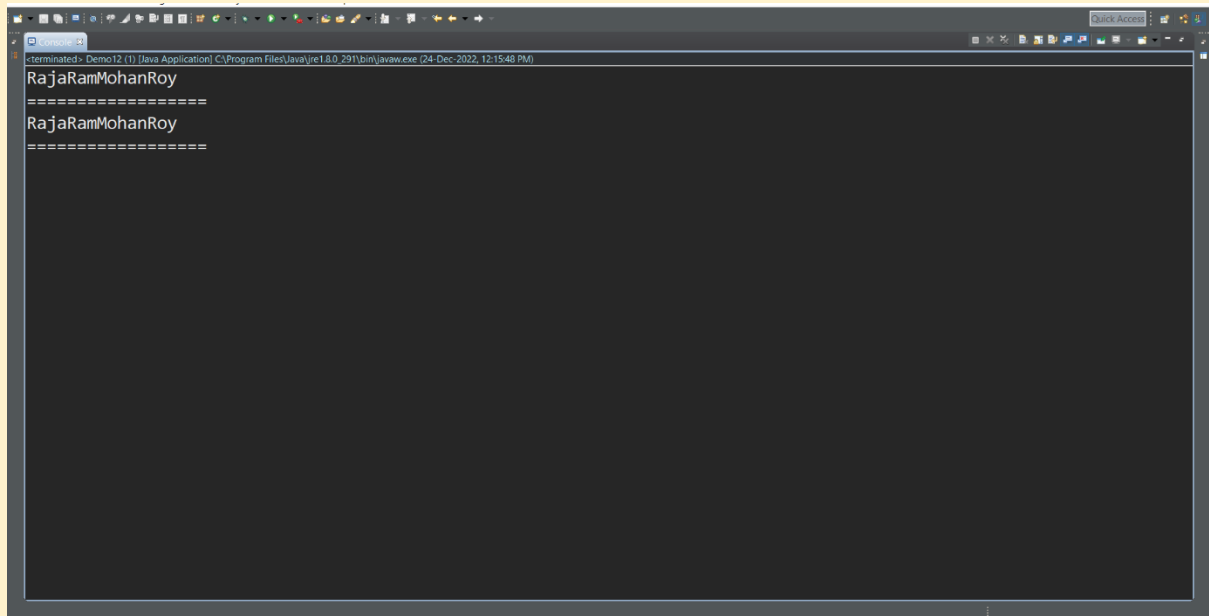
toCharArray() : A newly allocated character array whose length is the length of this string and whose contents are initialized to contain the character sequence represented by this string.

```
public class Demo12
{
    public static void main(String[] args)
    {
        String s=new String("RajaRamMohanRoy");
        System.out.println(s);
        System.out.println("=====");
        System.out.println(s.toCharArray());
        System.out.println("=====");
    }
}
```



```
1 public class Demo12
2 {
3     public static void main(String[] args)
4     {
5         String s=new String("RajaRamMohanRoy");
6         System.out.println(s);
7         System.out.println("=====");
8         System.out.println(s.toCharArray());
9         System.out.println("=====");
10    }
11 }
12 }
```


Output :

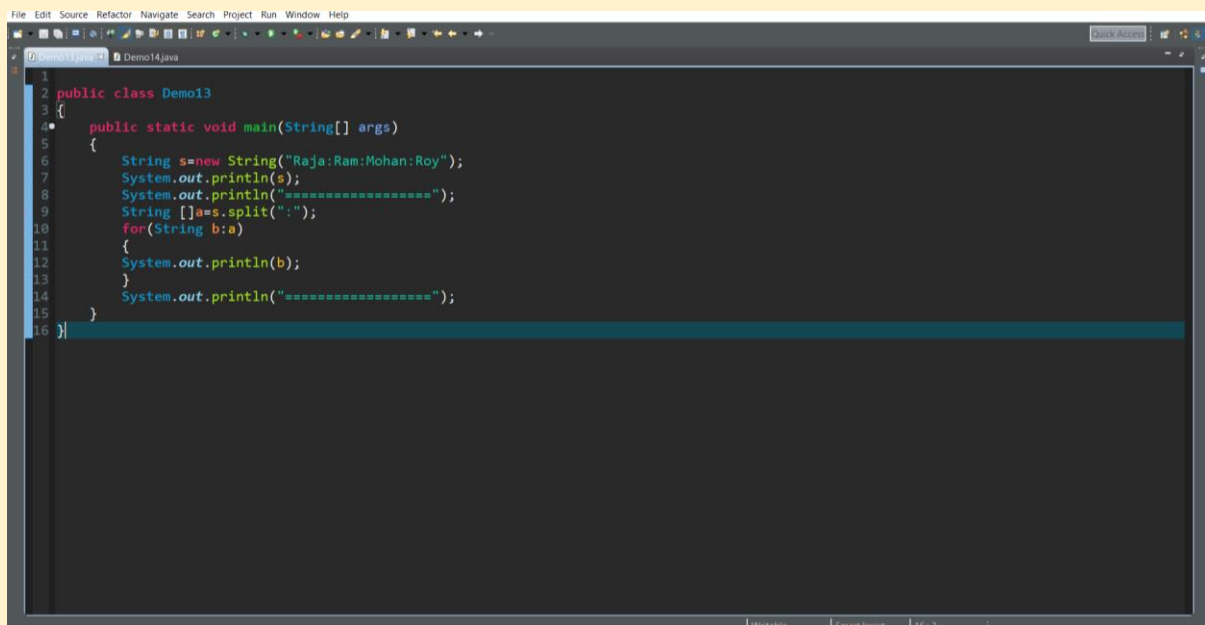


```
terminated> Demo12 (1) [Java Application] C:\Program Files\Java\jre1.8.0_291\bin\javaw.exe (24-Dec-2022, 12:15:48 PM)
RajaRamMohanRoy
=====
RajaRamMohanRoy
=====
```

Program 13:

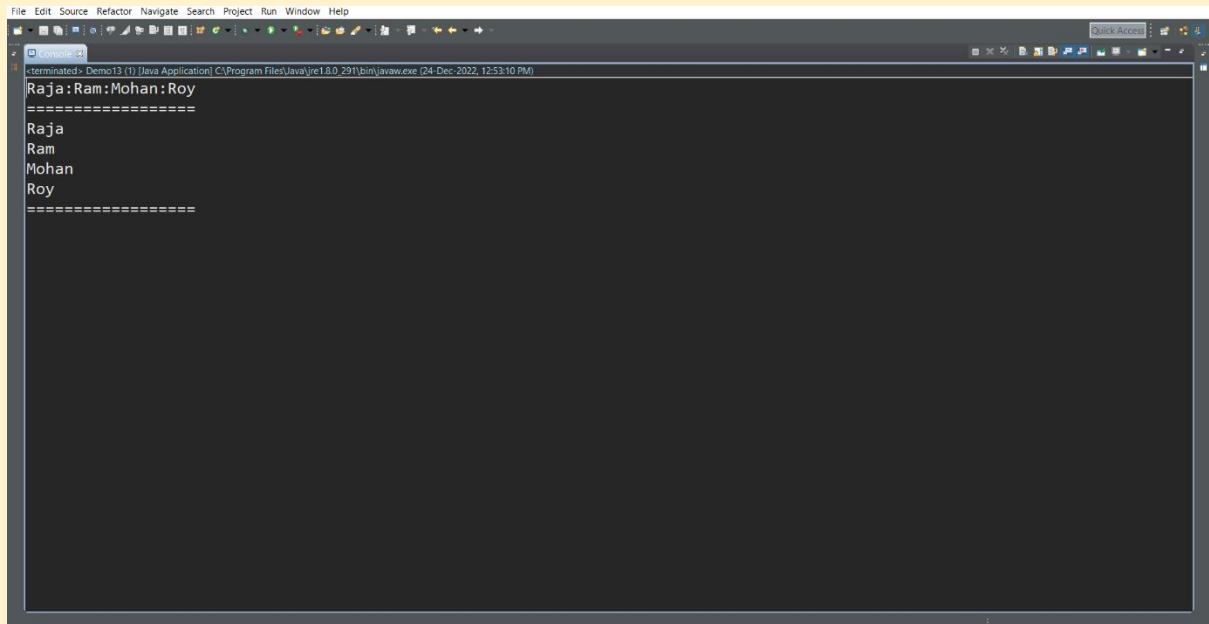
split(String regex) : The split() method divides the string at the specified regex and returns an array of substrings.

```
public class Demo13
{
    public static void main(String[] args)
    {
        String s=new String("Raja:Ram:Mohan:Roy");
        System.out.println(s);
        System.out.println("=====");
        String []a=s.split(":");
        for(String b:a)
        {
            System.out.println(b);
        }
        System.out.println("=====");
    }
}
```

A screenshot of an IDE window titled 'Demo14.java'. The code is identical to the one shown in the previous block. The IDE has a menu bar (File, Edit, Source, Refactor, Navigate, Search, Project, Run, Window, Help) and a toolbar. The code is displayed with syntax highlighting: keywords in blue, strings in red, and comments in green. The status bar at the bottom shows 'Writable', 'Smart Insert', and '16:2'.

```
1 public class Demo13
2 {
3     public static void main(String[] args)
4     {
5         String s=new String("Raja:Ram:Mohan:Roy");
6         System.out.println(s);
7         System.out.println("=====");
8         String []a=s.split(":");
9         for(String b:a)
10        {
11            System.out.println(b);
12        }
13        System.out.println("=====");
14    }
15 }
16 }
```

Output :



The screenshot shows a Java IDE window titled "Demo13 (1) [Java Application] C:\Program Files\Java\jre1.8.0_291\bin\javaw.exe (24-Dec-2022, 12:53:10 PM)". The console output is as follows:

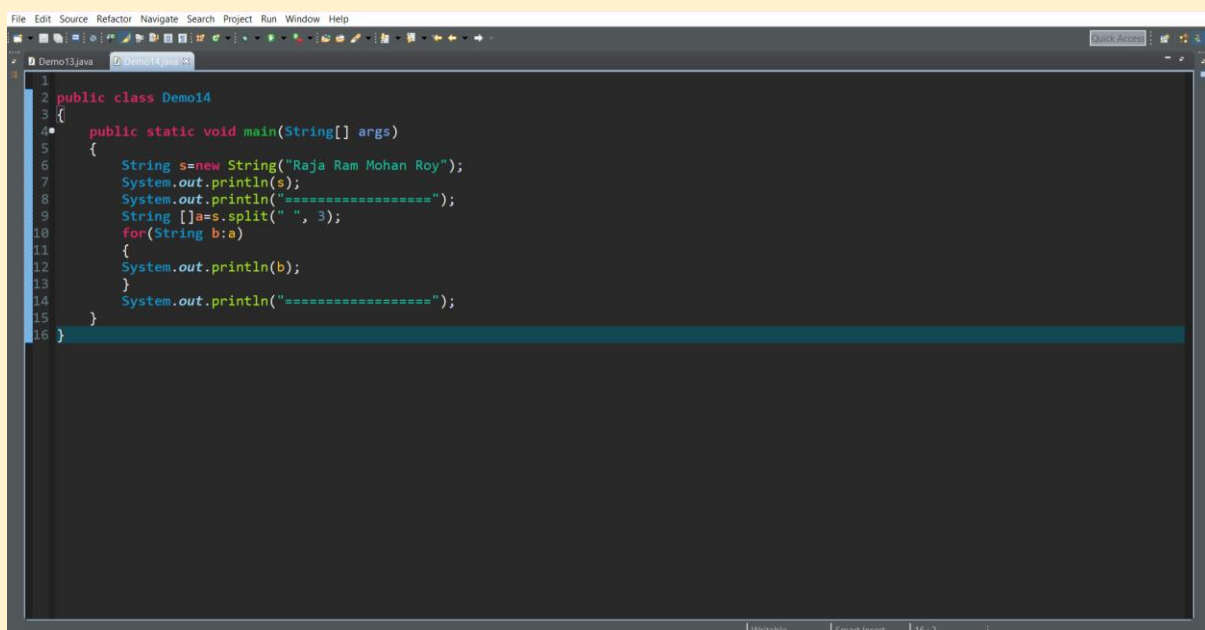
```
Raja:Ram:Mohan:Roy
=====
Raja
Ram
Mohan
Roy
=====
```

Program 14:

split(String regex, int limit) : The string split() method can take two parameters.

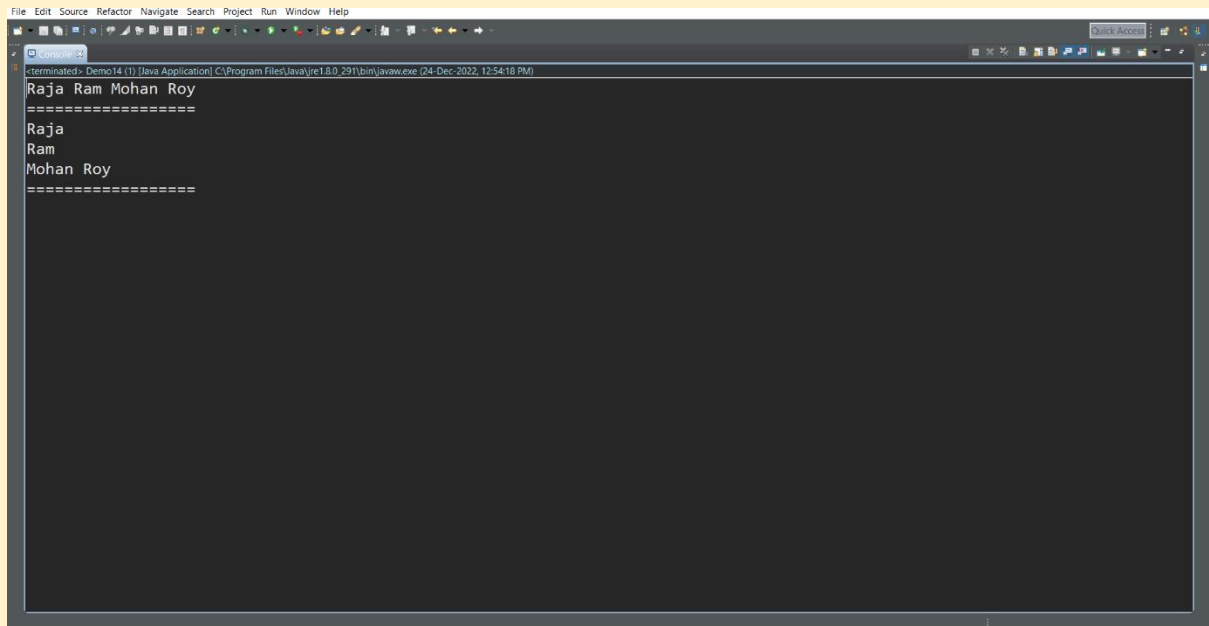
- **regex** – the string is divided at this regex(can be strings).
- **limit** – controls the number of resulting substrings.

```
public class Demo14
{
    public static void main(String[] args)
    {
        String s=new String("Raja Ram Mohan Roy");
        System.out.println(s);
        System.out.println("=====");
        String []a=s.split(" ", 3);
        for(String b:a)
        {
            System.out.println(b);
        }
        System.out.println("=====");
    }
}
```

A screenshot of an IDE window showing the Java code for Program 14. The code is identical to the one shown in the text block above. The IDE has a dark theme, and the code is color-coded. The file name is 'Demo14.java'. The code is as follows:

```
1 public class Demo14
2 {
3     public static void main(String[] args)
4     {
5         String s=new String("Raja Ram Mohan Roy");
6         System.out.println(s);
7         System.out.println("=====");
8         String []a=s.split(" ", 3);
9         for(String b:a)
10        {
11            System.out.println(b);
12        }
13        System.out.println("=====");
14    }
15 }
16 }
```

Output :



The screenshot shows a Java IDE window titled "Demo14 (1) [Java Application] C:\Program Files\Java\jre1.8.0_291\bin\javaw.exe (24-Dec-2022, 12:54:18 PM)". The console output is as follows:

```
Raja Ram Mohan Roy
=====
Raja
Ram
Mohan Roy
=====
```