JAVA- STRINGS METHOD

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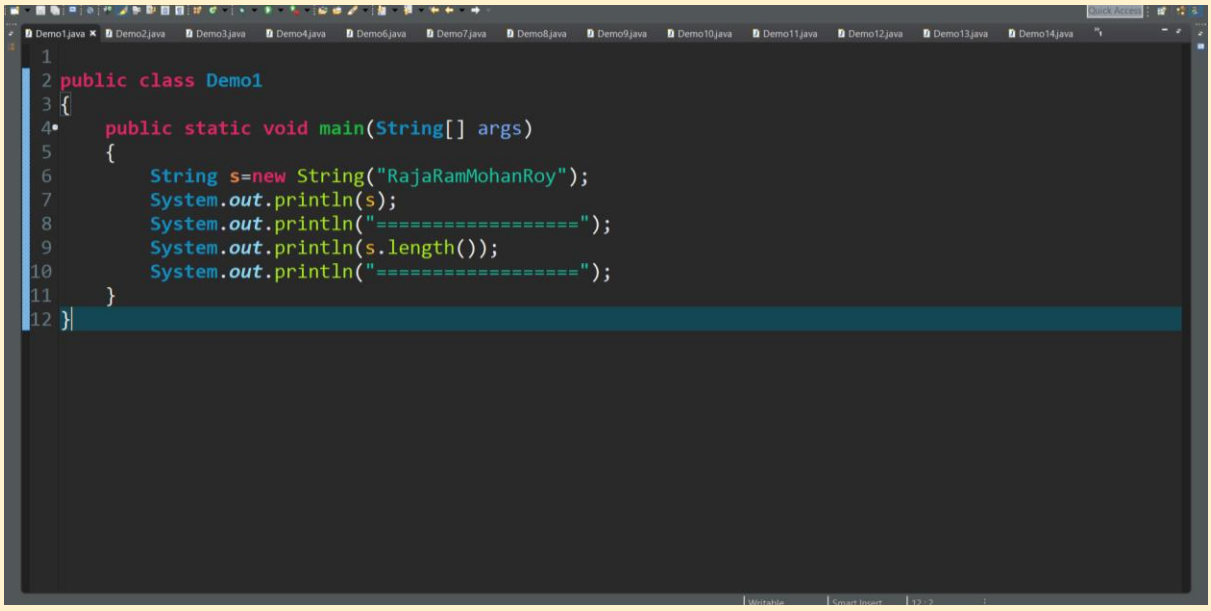
BATCH: NOV-14

JAVA STRING METHODS ASSIGNMENT

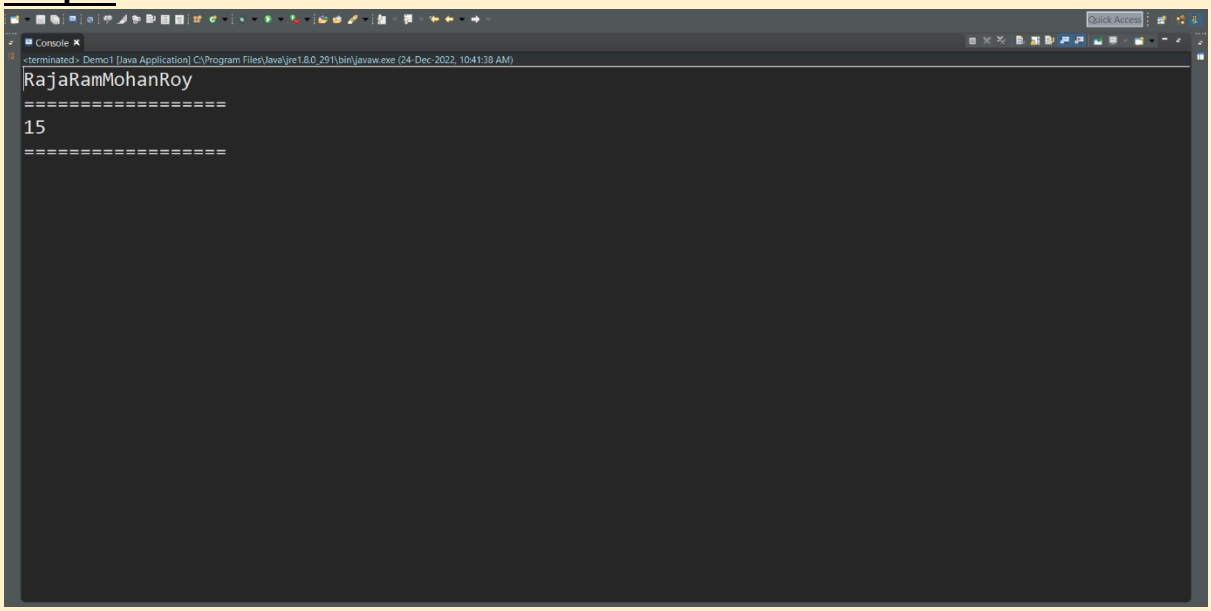
Program 1:

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("==================");
	}
}
```



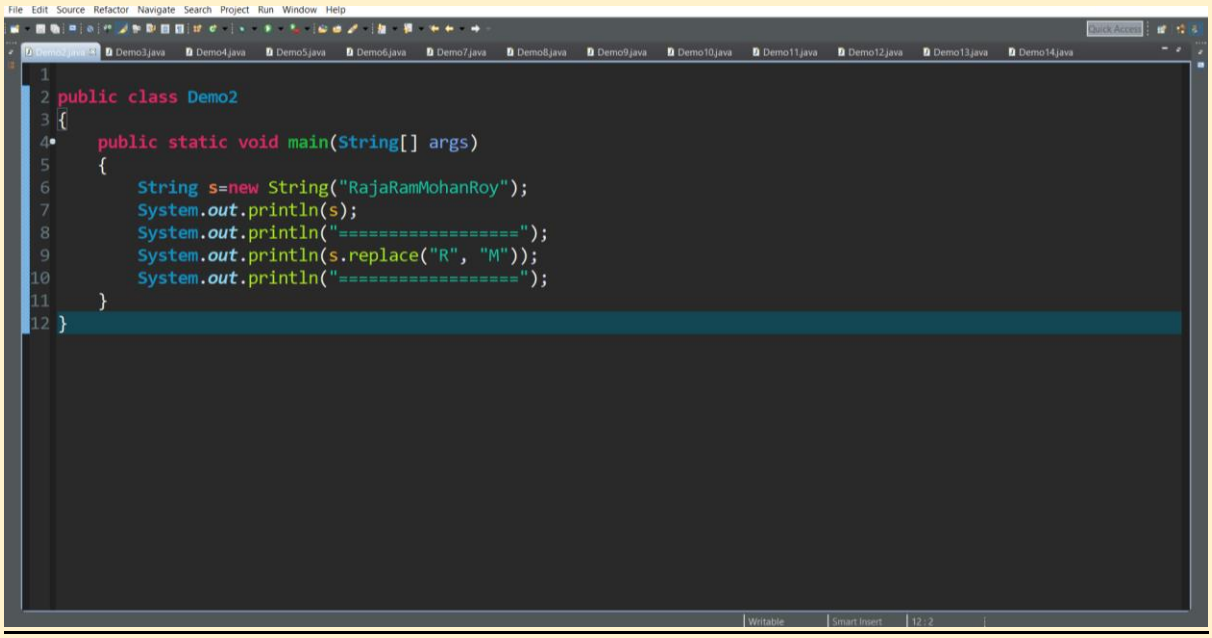
Output :


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

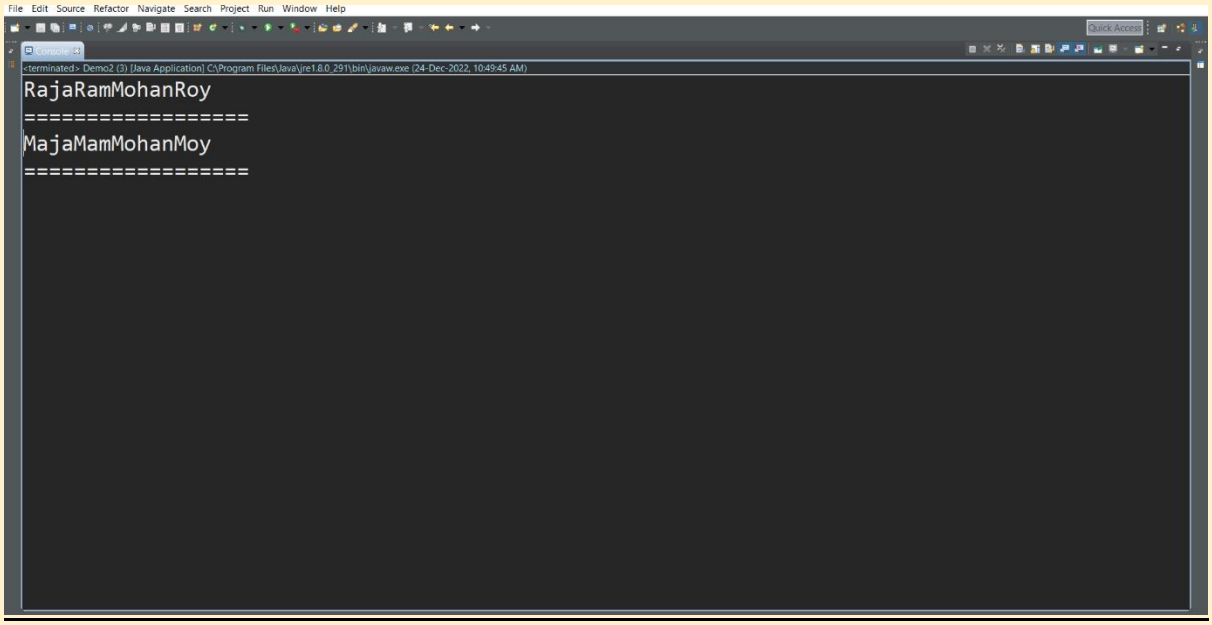
Program 2:

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("==================");
	}
}
```



Output :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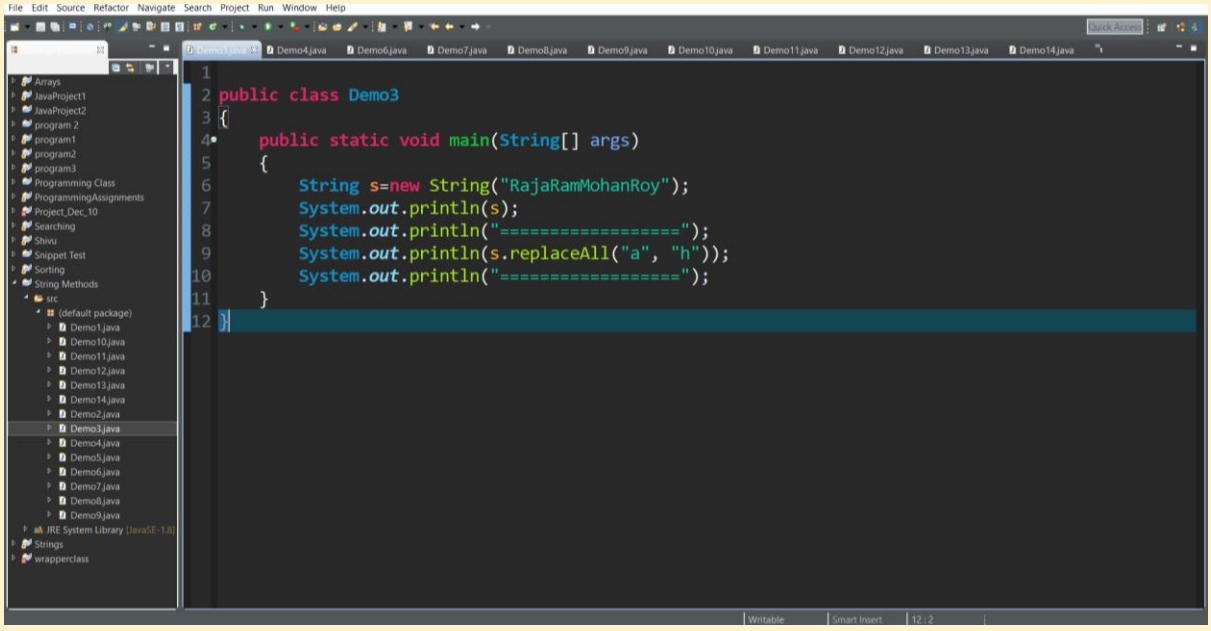
Quick Access
<terminated> Demo2 (3) [Java Application] C:\Program Files\Java\jre1.8.0_291\bin\javaw.exe (24-Dec-2022, 10:49:45 AM)
RajaRamMohanRoy
==========
MajaMamMohanMoy
==========

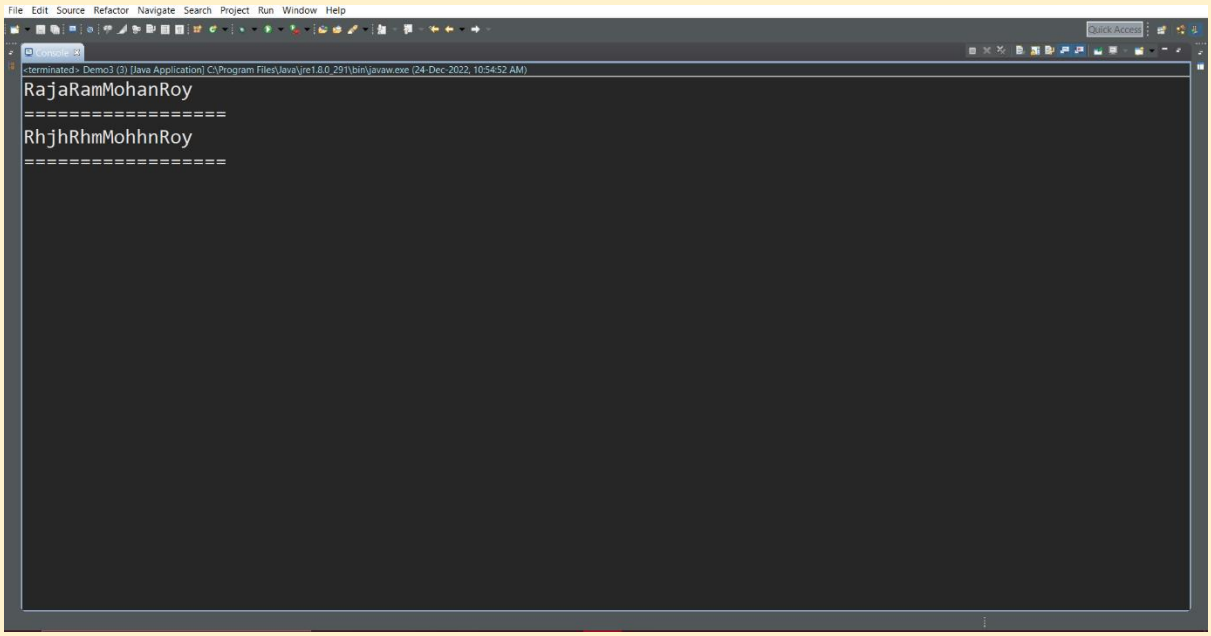
Program 3:

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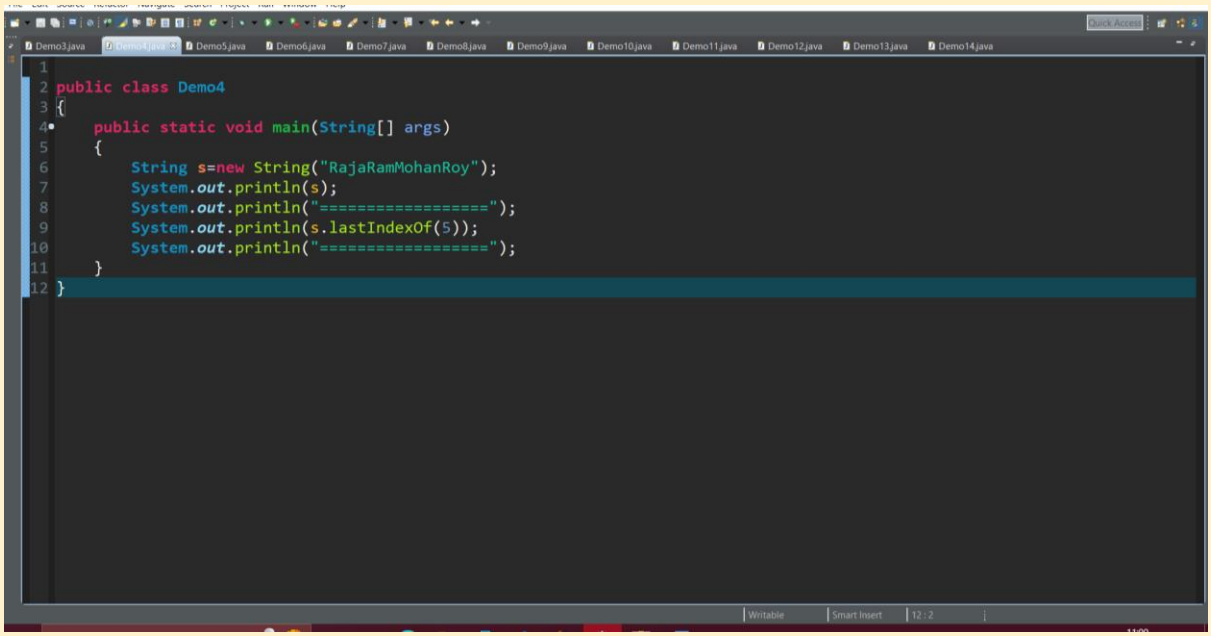
Quick Access
Console
<terminated> Demo3 (3) [Java Application] C:\Program Files\Java\jre1.8.0_291\bin\javaw.exe (24-Dec-2022, 10:54:52 AM)
RajaRamMohanRoy
==========
RhjhRhmMohhnRoy
==========

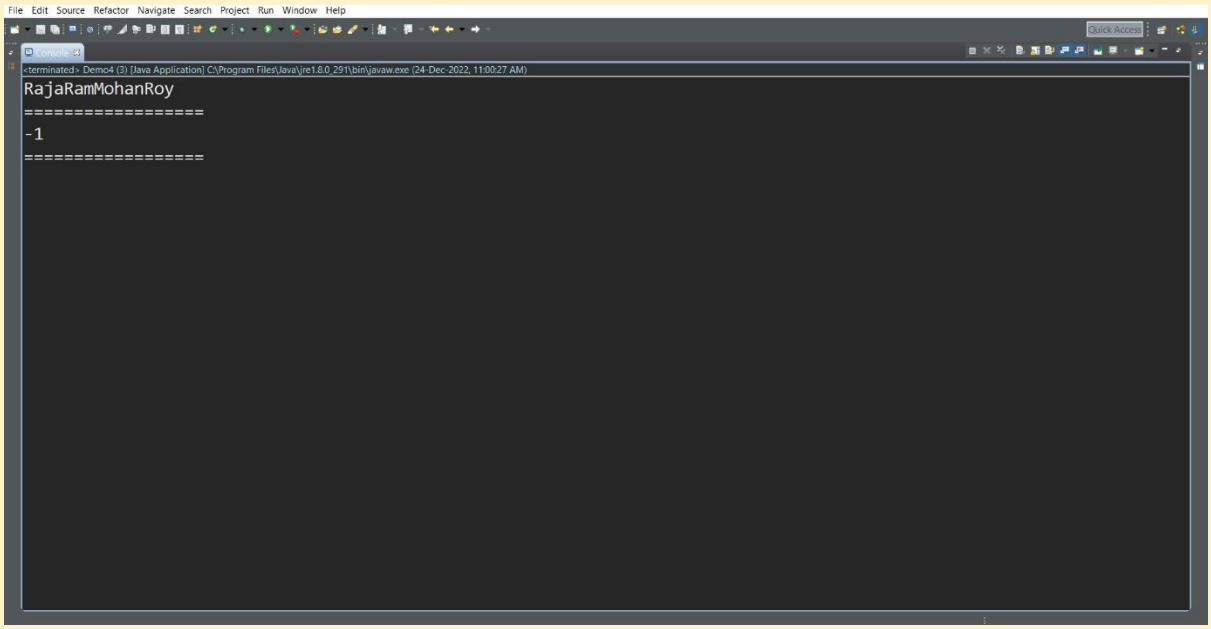
Program 4:

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("==================");
	}
}
```



Output :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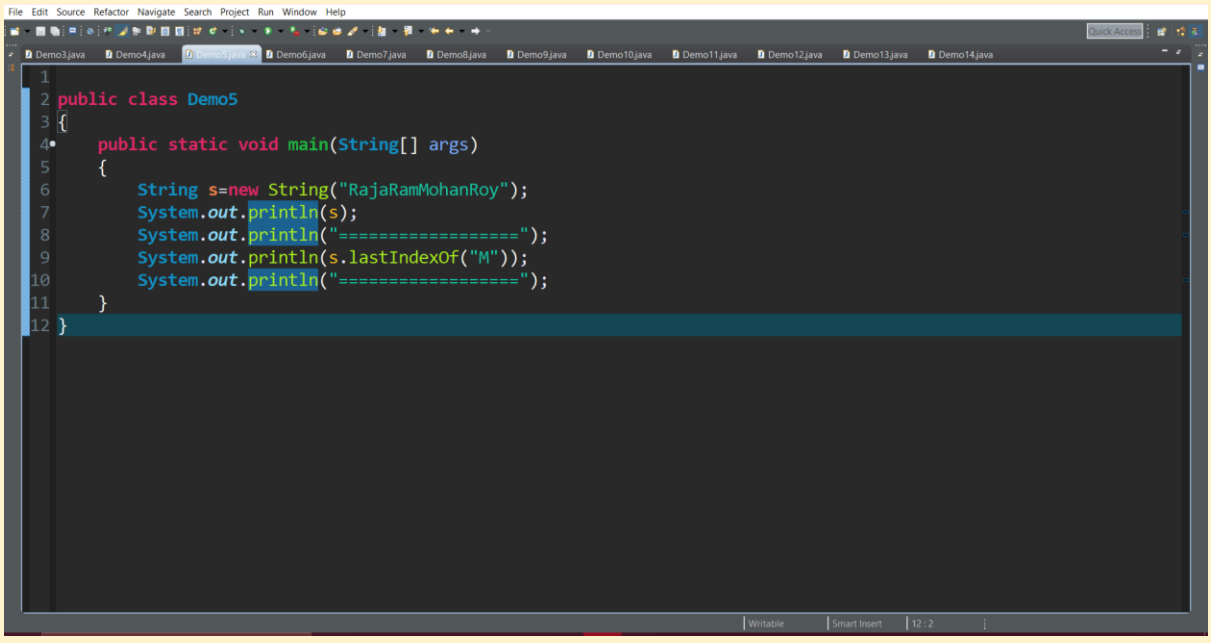
Quick Access
Console
<terminated> Demo4 (3) [Java Application] C:\Program Files\Java\jre1.8.0_291\bin\javaw.exe (24-Dec-2022, 11:00:27 AM)
RajaRamMohanRoy
==========
-1
==========

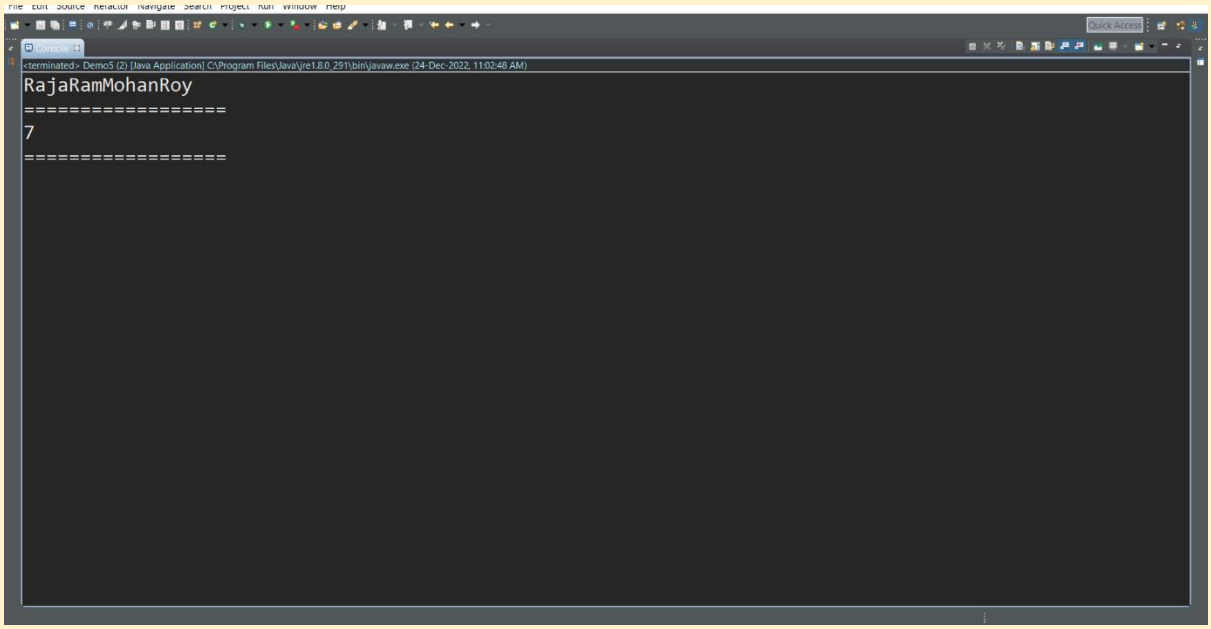
Program 5:

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("==================");
	}
}
```



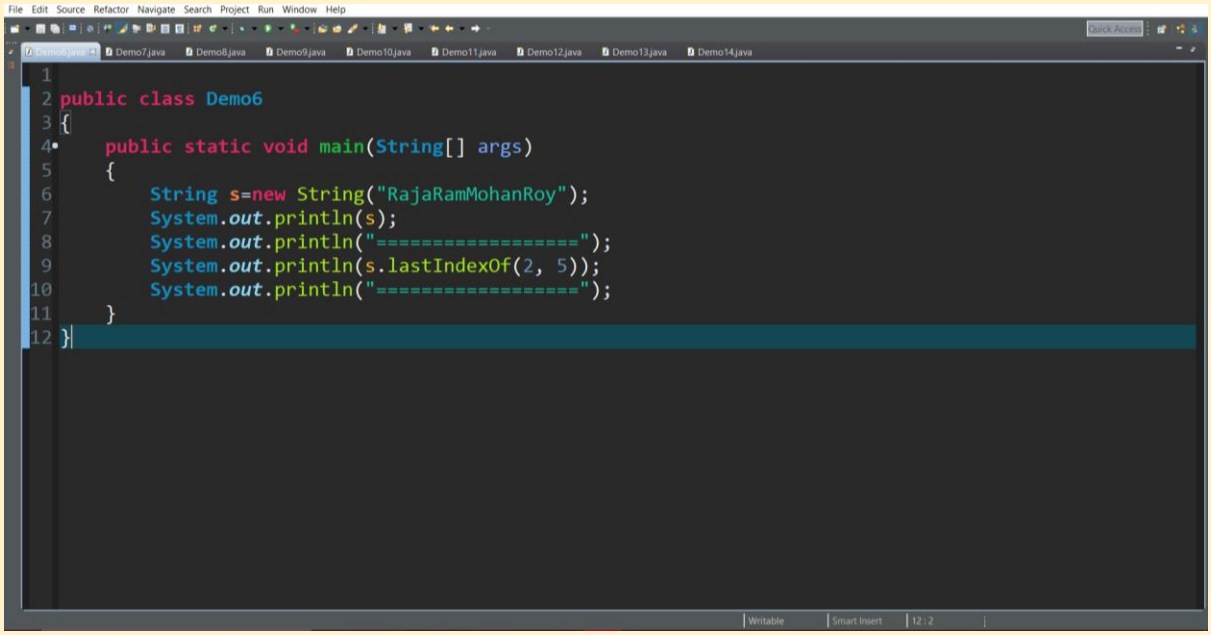
Output :


File Edit Source Refactor Navigate Search Project Run Window Help
Quick Access
Console
<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
==========

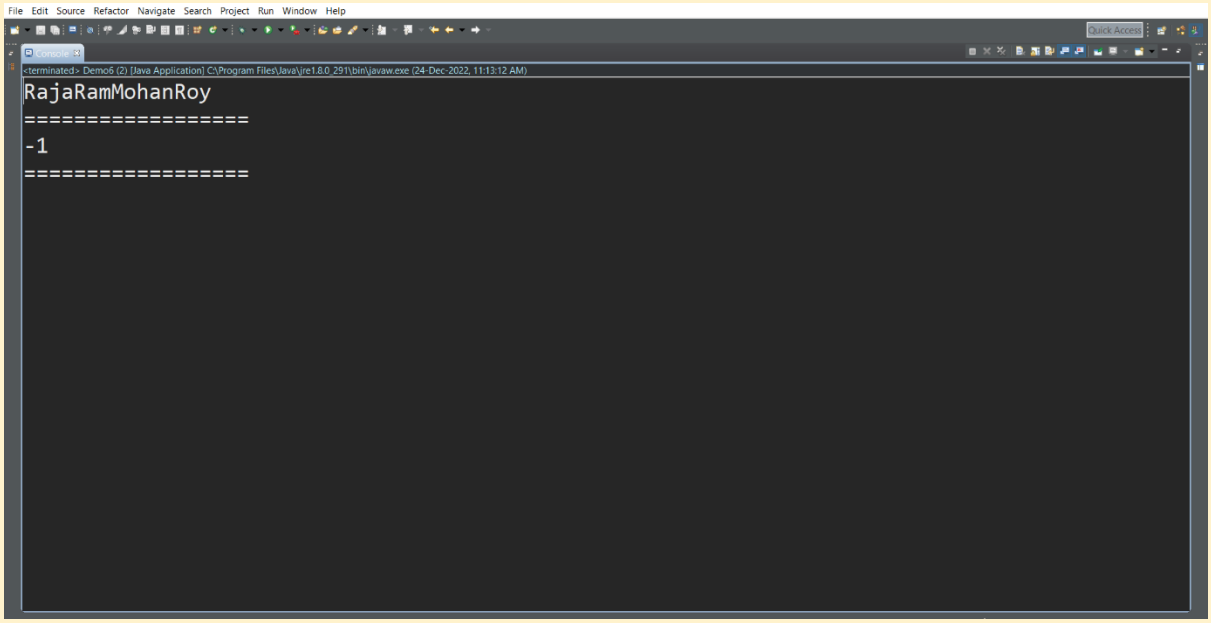
Program 6:

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("==================");
	}
}
```



Output :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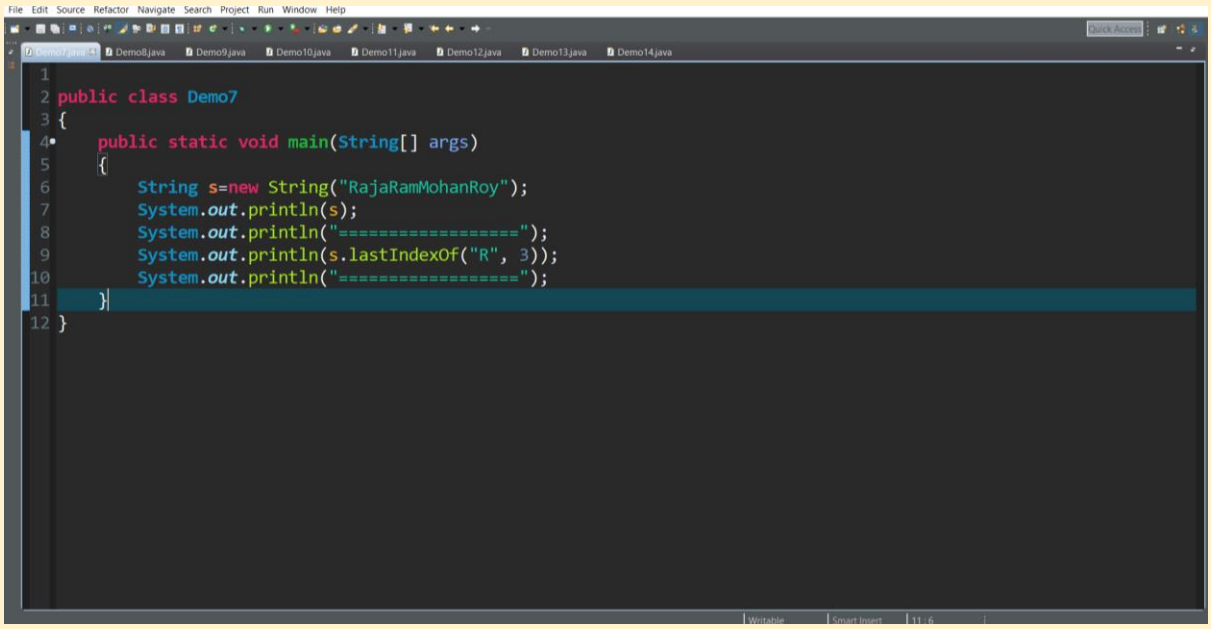
Quick Access
<terminated> Demo6 (2) [Java Application] C:\Program Files\Java\jre1.8.0_291\bin\javaw.exe (24-Dec-2022, 11:13:12 AM)
RajaRamMohanRoy
==========
-1
==========

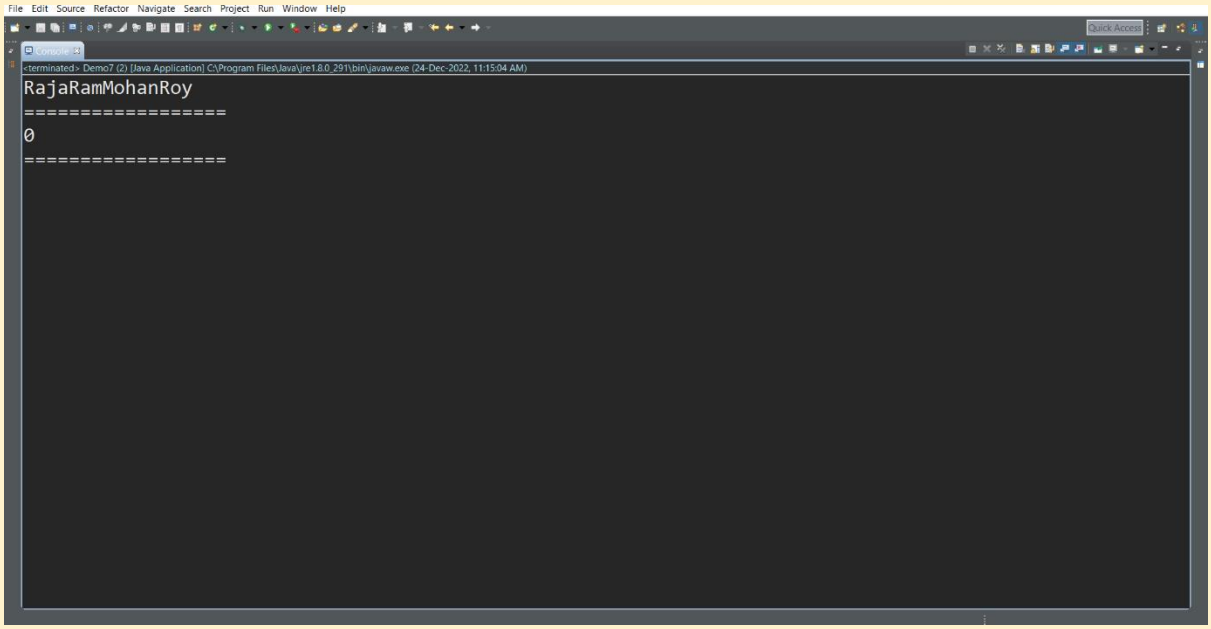
Program 7:

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("==================");
	}
}
```



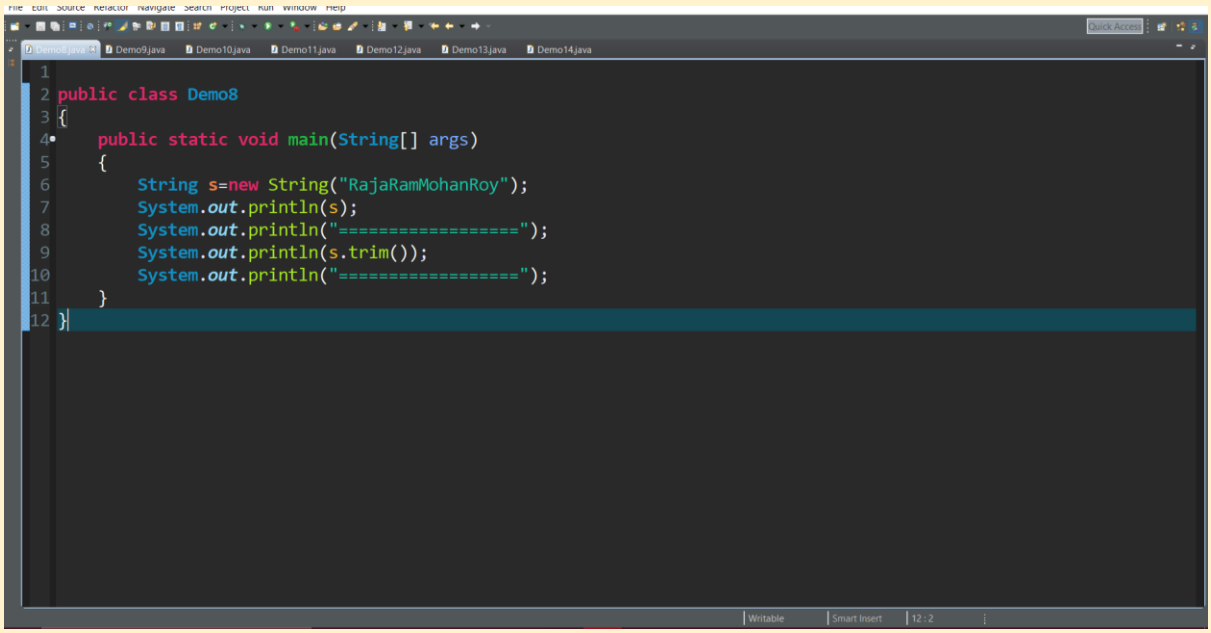
Output :


File Edit Source Refactor Navigate Search Project Run Window Help
Quick Access
Console
<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
==========

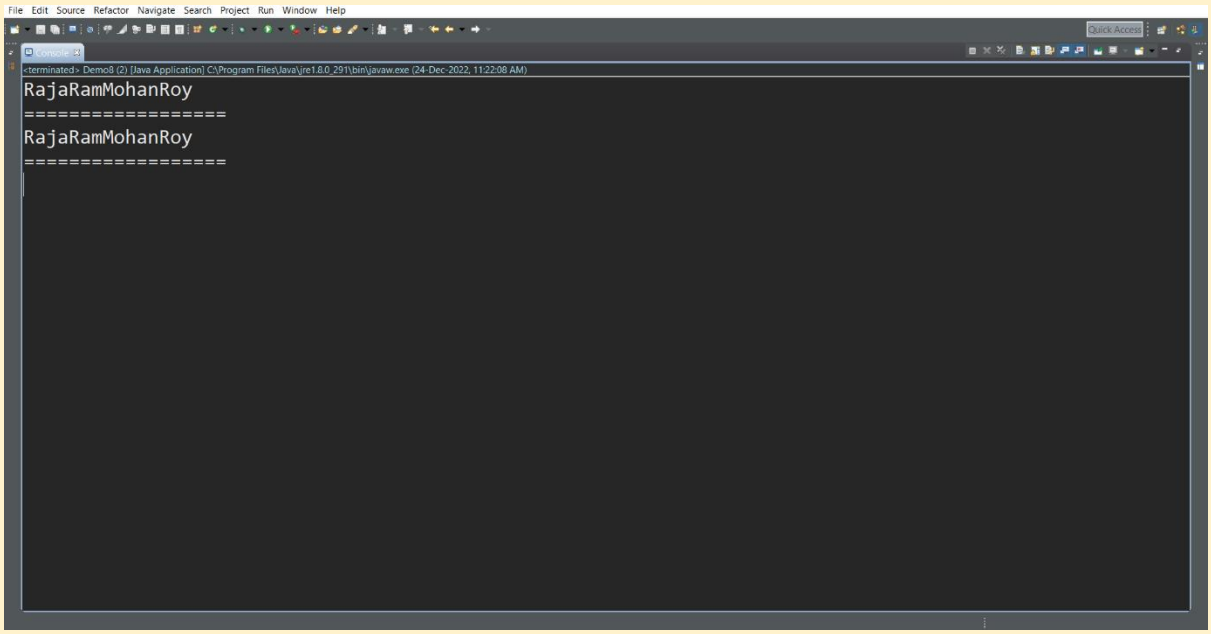
Program 8:

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("==================");
	}
}
```



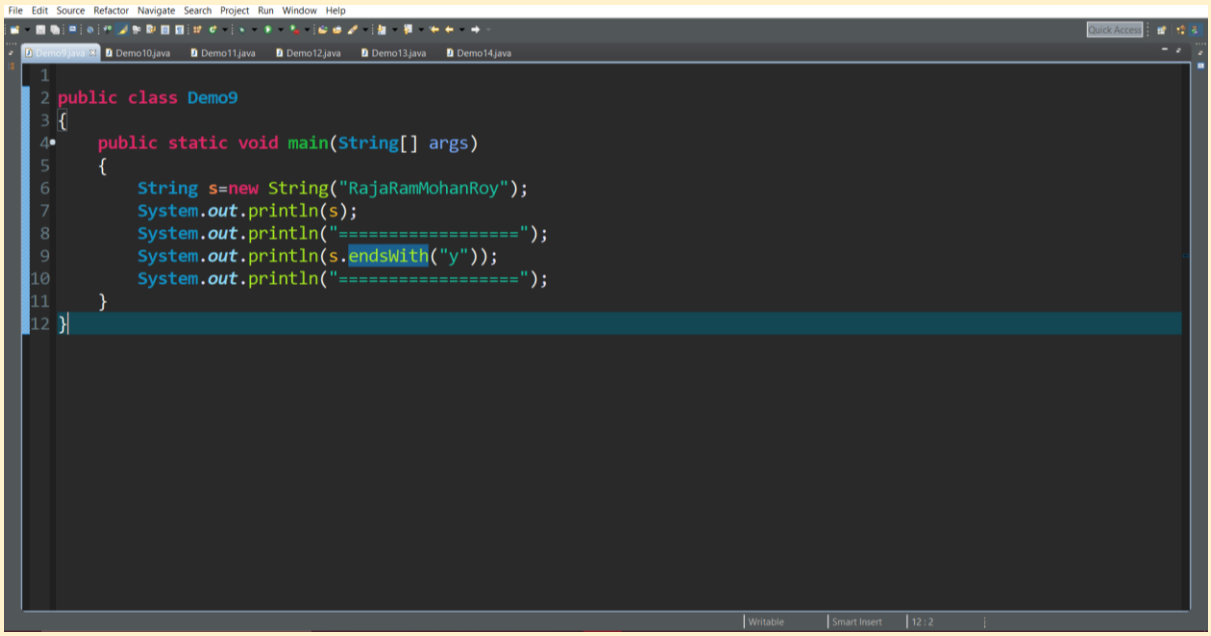
Output :


File Edit Source Refactor Navigate Search Project Run Window Help
Quick Access
Console
<terminated> Demo8 (2) [Java Application] C:\Program Files\Java\jre1.8.0_291\bin\javaw.exe (24-Dec-2022, 11:22:08 AM)
RajaRamMohanRoy
==========
RajaRamMohanRoy
==========

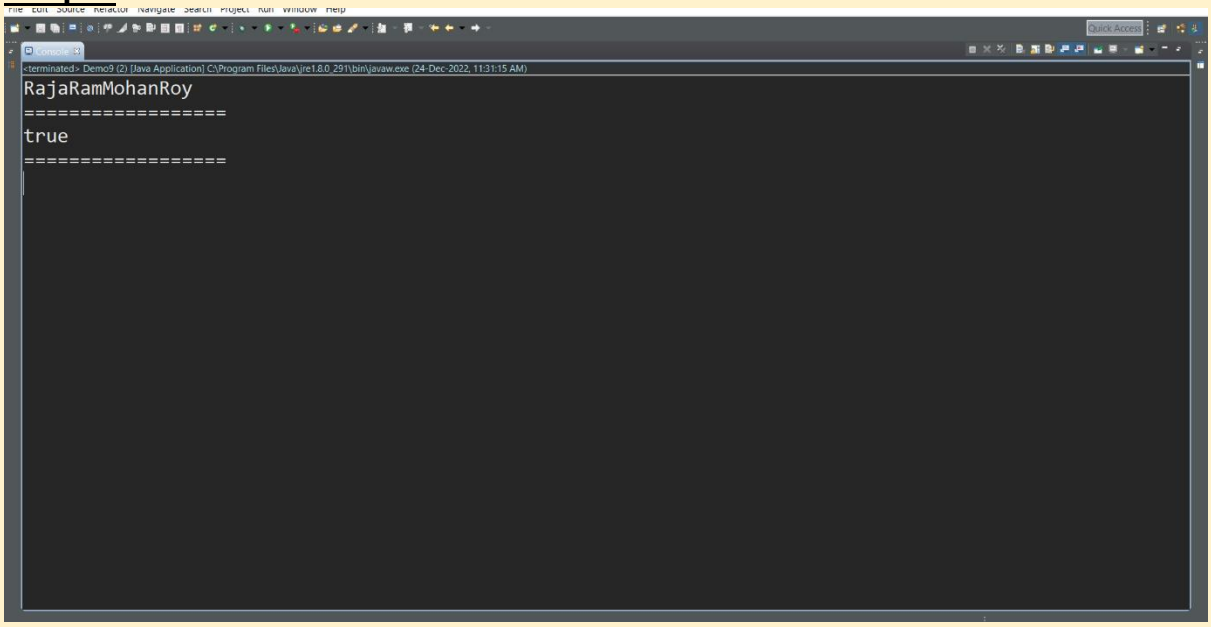
Program 9:

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("==================");
	}
}
```



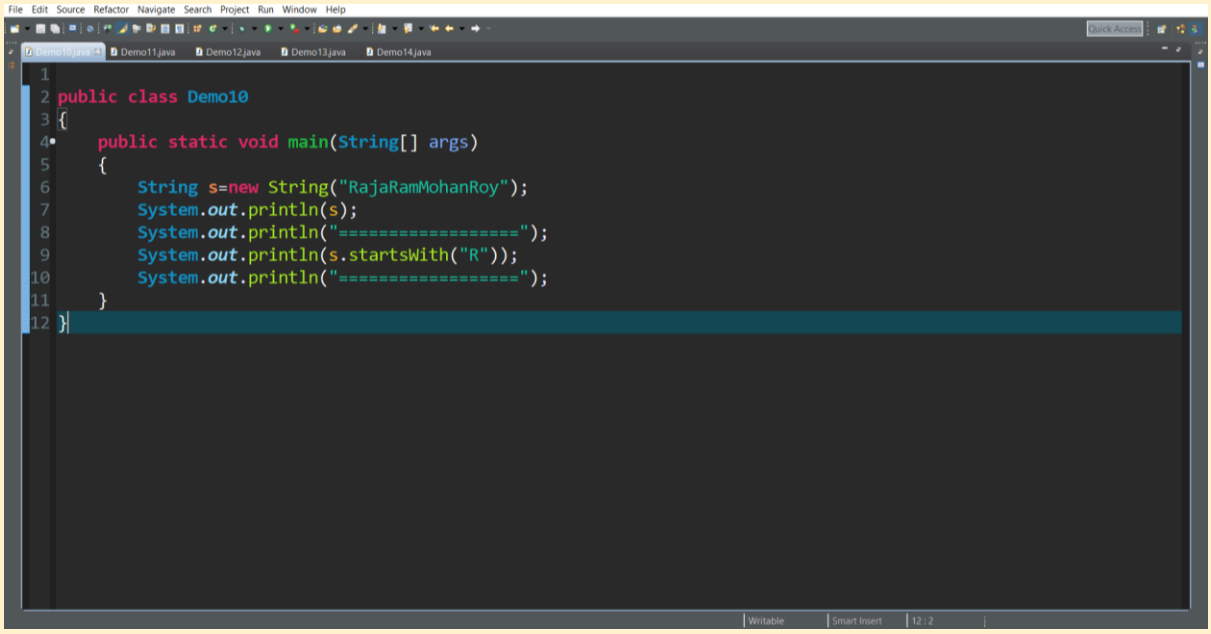
Output :


Quick Access
Console
<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
==========

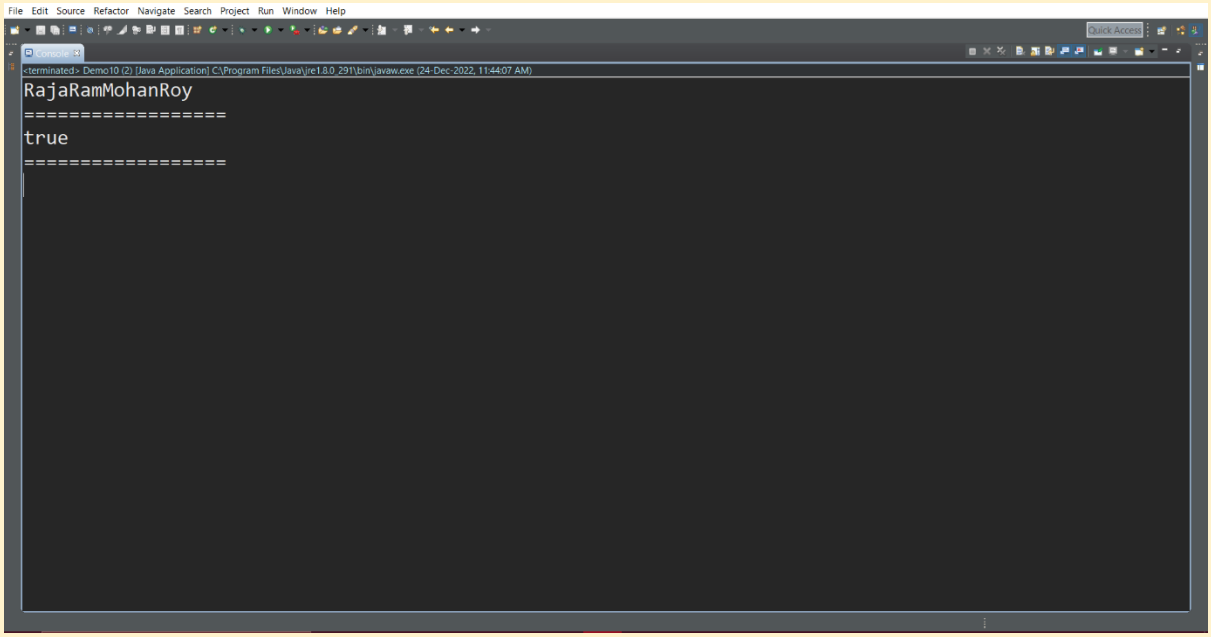
Program 10:

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("==================");
	}
}
```



Output :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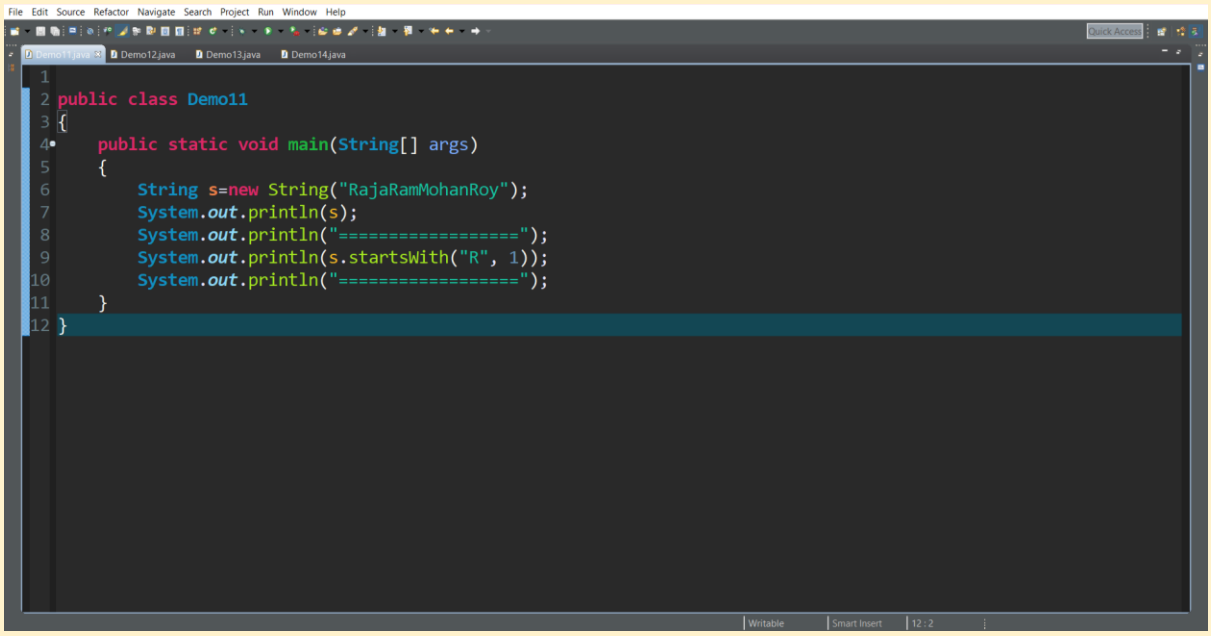
Quick Access
<terminated> Demo10 (2) [Java Application] C:\Program Files\Java\jre1.8.0_291\bin\javaw.exe (24-Dec-2022, 11:44:07 AM)
RajaRamMohanRoy
==========
true
==========

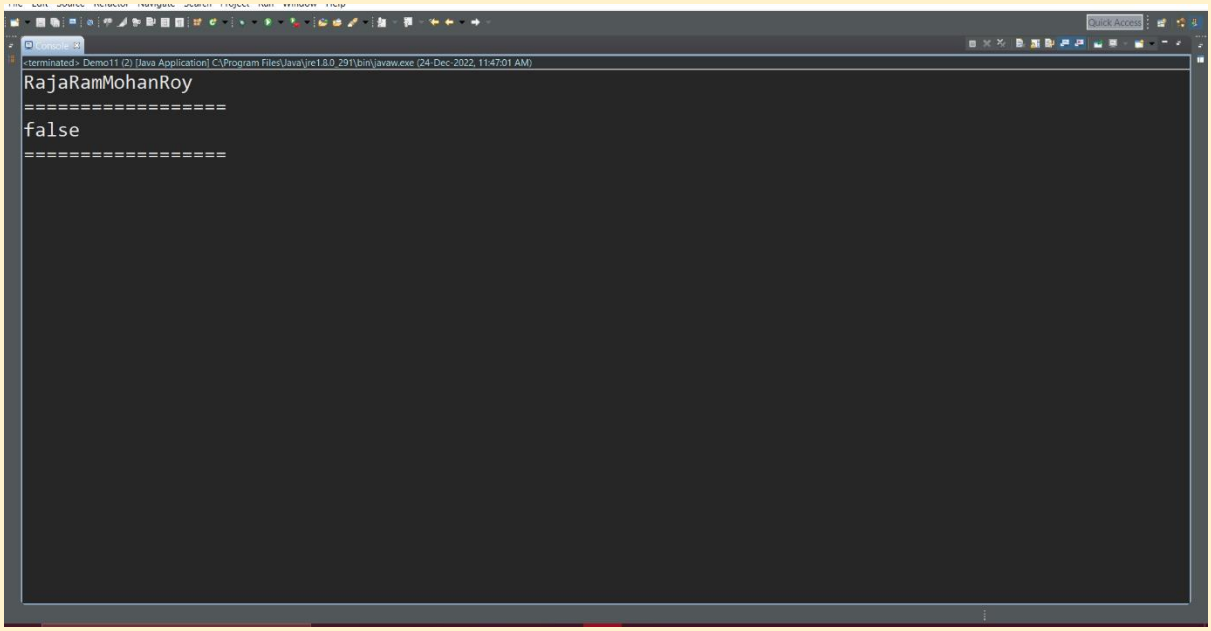
Program 11:

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("==================");
	}
}
```



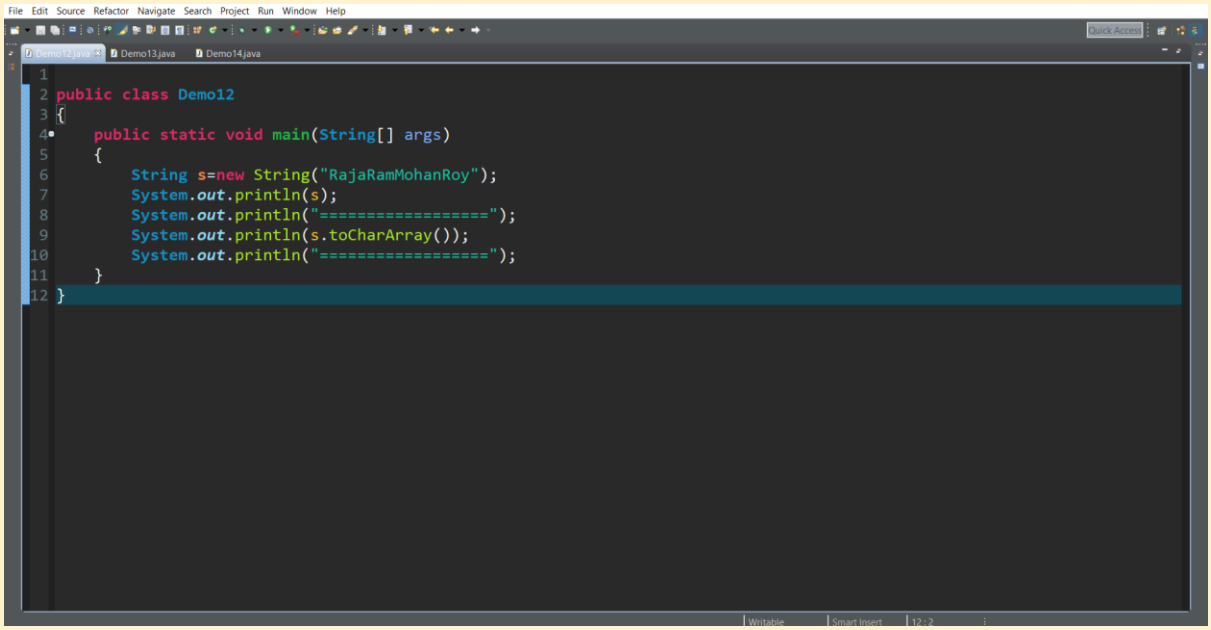
Output :


Quick Access
Console
<terminated> Demo11 (2) [Java Application] C:\Program Files\Java\jre1.8.0_291\bin\javaw.exe (24-Dec-2022, 11:47:01 AM)
RajaRamMohanRoy
==========
false
==========

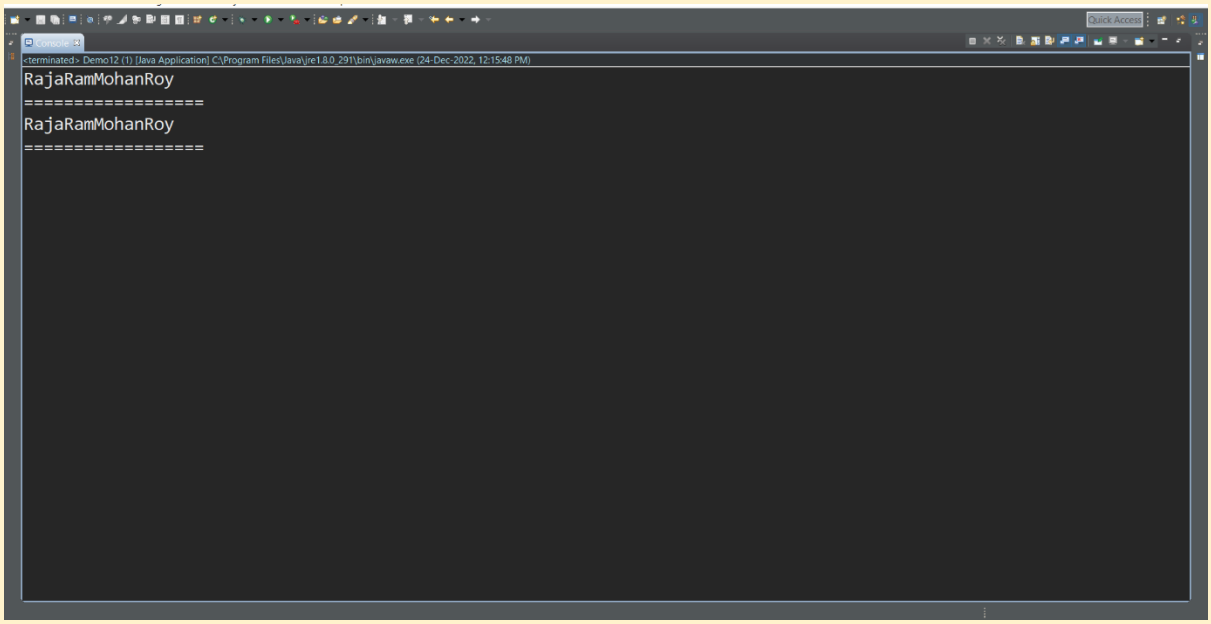
Program 12:

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("==================");
	}
}
```



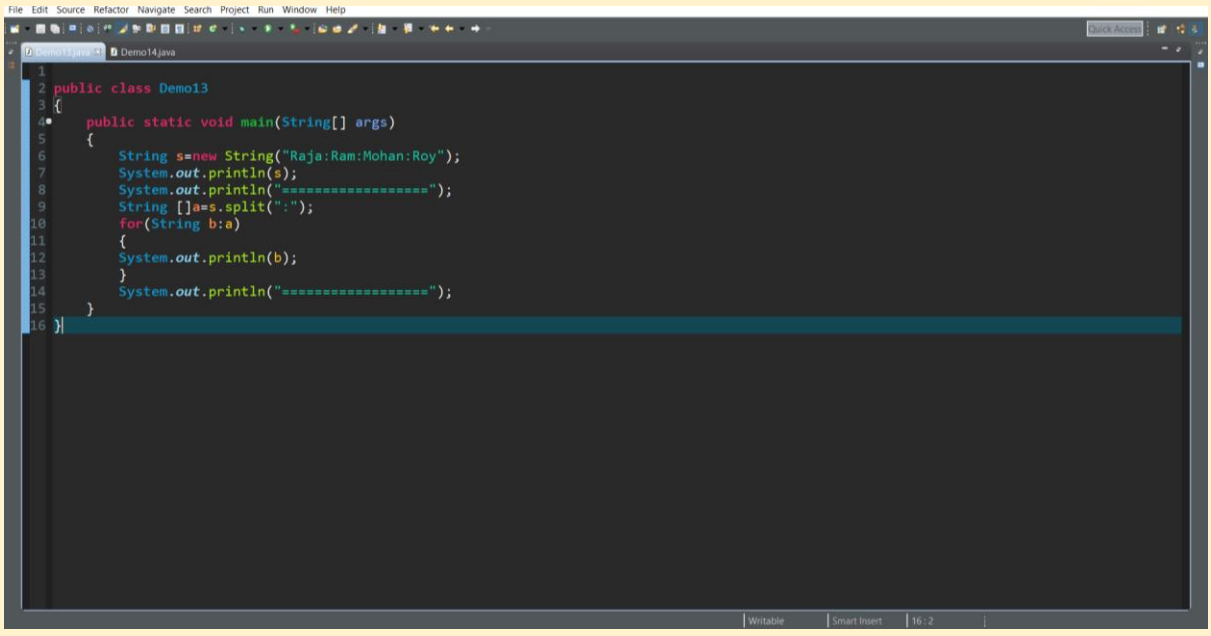
Output :


Quick Access
Console
<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
==========

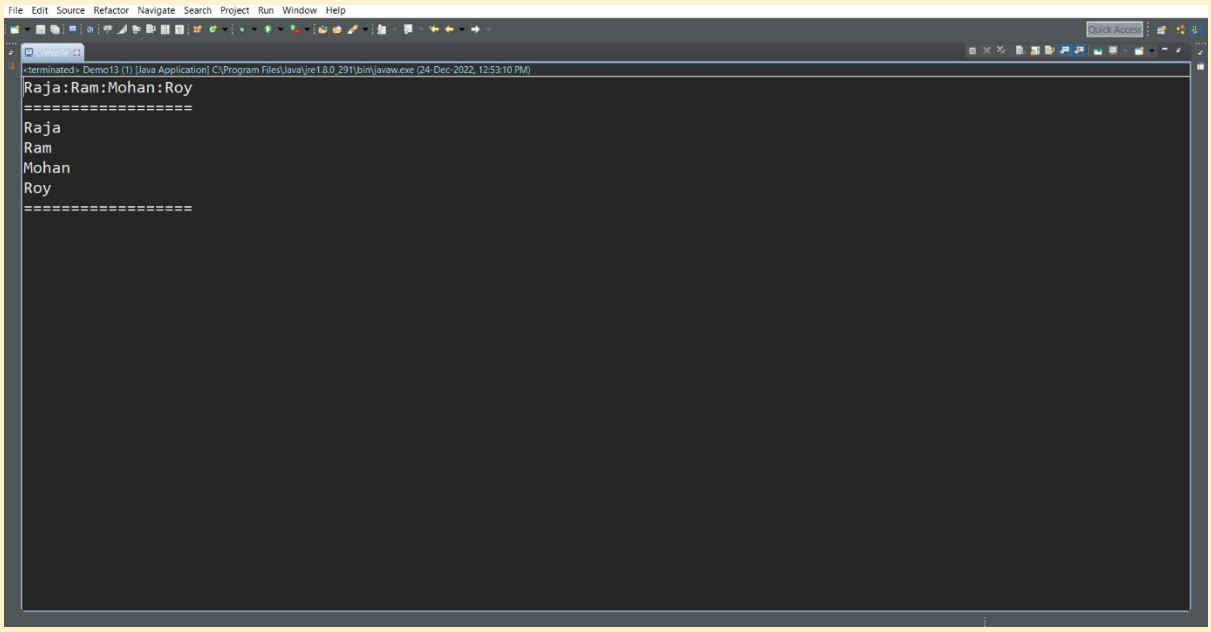
Program 13:

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("==================");
	}
}
```



Output :

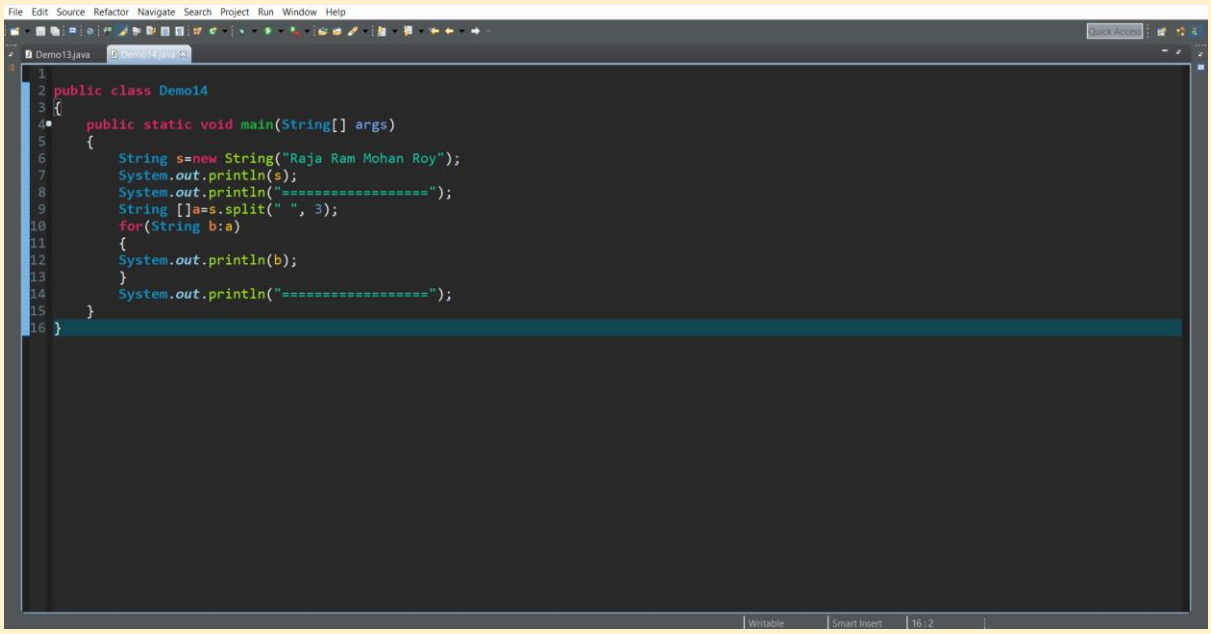

File Edit Source Refactor Navigate Search Project Run Window Help
Quick Access
Console
<terminated> Demo13 (1) [Java Application] C:\Program Files\Java\jre1.8.0_291\bin\javaw.exe (24-Dec-2022, 12:53:10 PM)
Raja:Ram:Mohan:Roy
==========
Raja
Ram
Mohan
Roy
==========

Program 14:

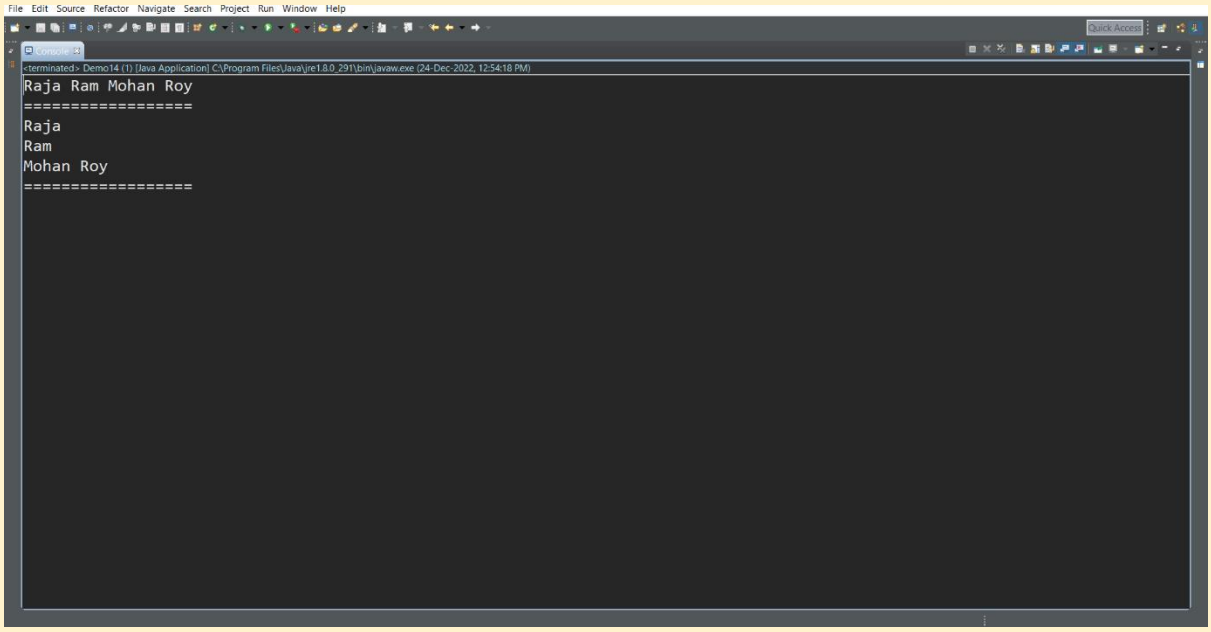
split(String regex, int limit) : The string split() method can take two parameters.

- **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("==================");
	}
}
```



Output :


File Edit Source Refactor Navigate Search Project Run Window Help
Quick Access
Console
<terminated> Demo14 (1) [Java Application] C:\Program Files\Java\jre1.8.0_291\bin\javaw.exe (24-Dec-2022, 12:54:18 PM)
Raja Ram Mohan Roy
==========
Raja
Ram
Mohan Roy
==========