

Q1. Explain String class indexOf() method in java Programming?

Ans:The indexOf() method is overloaded method. It will return first occurrence index position of the specified String

It will return -1 if given String is not found

Syntax:

```
int indexOf(String str);  
int indexOf(String str,int start);
```

Example:

Untitled - Paint

File Home View

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w	e	l	c	o	m	e
0	1	2	3	4	5	6

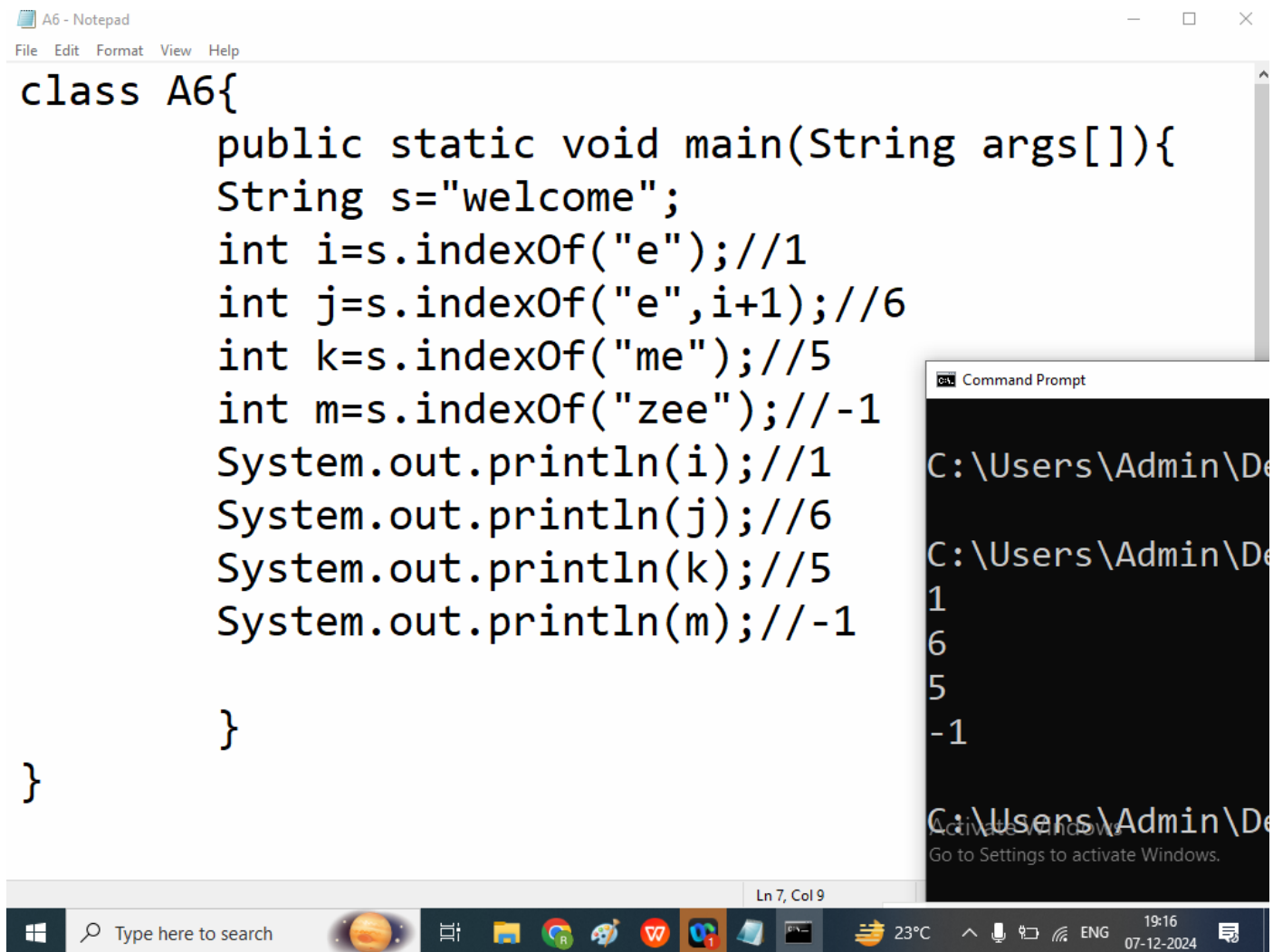
indexOf()

indexOf() ==> L To R
String s="welcome";
int i=s.indexOf("e");//1
int j=s.indexOf("e",i+1);//6
int k=s.indexOf("me");//5
int m=k.indexOf("zee");//-1

Activate Windows
Go to Settings to activate Windows.

774, 471px 1 x 140px 1680 x 942px 100%

Type here to search 23°C 19:17 07-12-2024



The screenshot shows a Windows desktop environment. In the foreground, a Notepad window titled 'A6 - Notepad' contains the following Java code:

```
class A6{  
    public static void main(String args[]){  
        String s="welcome";  
        int i=s.indexOf("e");//1  
        int j=s.indexOf("e",i+1);//6  
        int k=s.indexOf("me");//5  
        int m=s.indexOf("zee");//-1  
        System.out.println(i);//1  
        System.out.println(j);//6  
        System.out.println(k);//5  
        System.out.println(m);//-1  
    }  
}
```

Below the Notepad window, a Command Prompt window is open, displaying the output of the Java program:

```
C:\Users\Admin\De  
C:\Users\Admin\De  
1  
6  
5  
-1  
C:\Users\Admin\De  
Go to Settings to activate Windows.
```

The Windows taskbar at the bottom shows the search bar, task view button, and several application icons. The system tray on the right indicates the temperature is 23°C, the language is ENG, and the date is 07-12-2024.

Q1. Explain String class lastIndexOf() method in java Programming?

Ans:The lastIndexOf() method is overloaded method. It will return last occurrence index position of the specified String

It will return -1 if given String is not found

Syntax:

```
int lastIndexOf(String str);
```

int lastIndexOf(String str,int start);

Untitled - Paint

File Home View

Paste Select Crop Resize Rotate Image Tools Brushes Shapes Outline Fill Size Color 1 Color 2 Colors Edit colors Edit with Paint 3D

Last Index Of

w	e	l	c	o	m	e
0	1	2	3	4	5	6

R To L

```
String s="welcome";  
int i=s.lastIndexOf("e");//6  
int j=s.lastIndexOf("e",5);//1  
int k=s.lastIndexOf("me");//5
```

int m=s.lastIndexOf("zee");//-1

Activate Windows
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16,111px 1680 x 942px 100% 19:26 07-12-2024

Untitled - Paint

File Home View

Paste Select Crop Resize Rotate Image Tools Brushes Shapes Outline Fill Size Colors Edit colors Edit with Paint 3D

Last Index Of

w	e	l	c	o	m	e
0	1	2	3	4	5	6

R To L

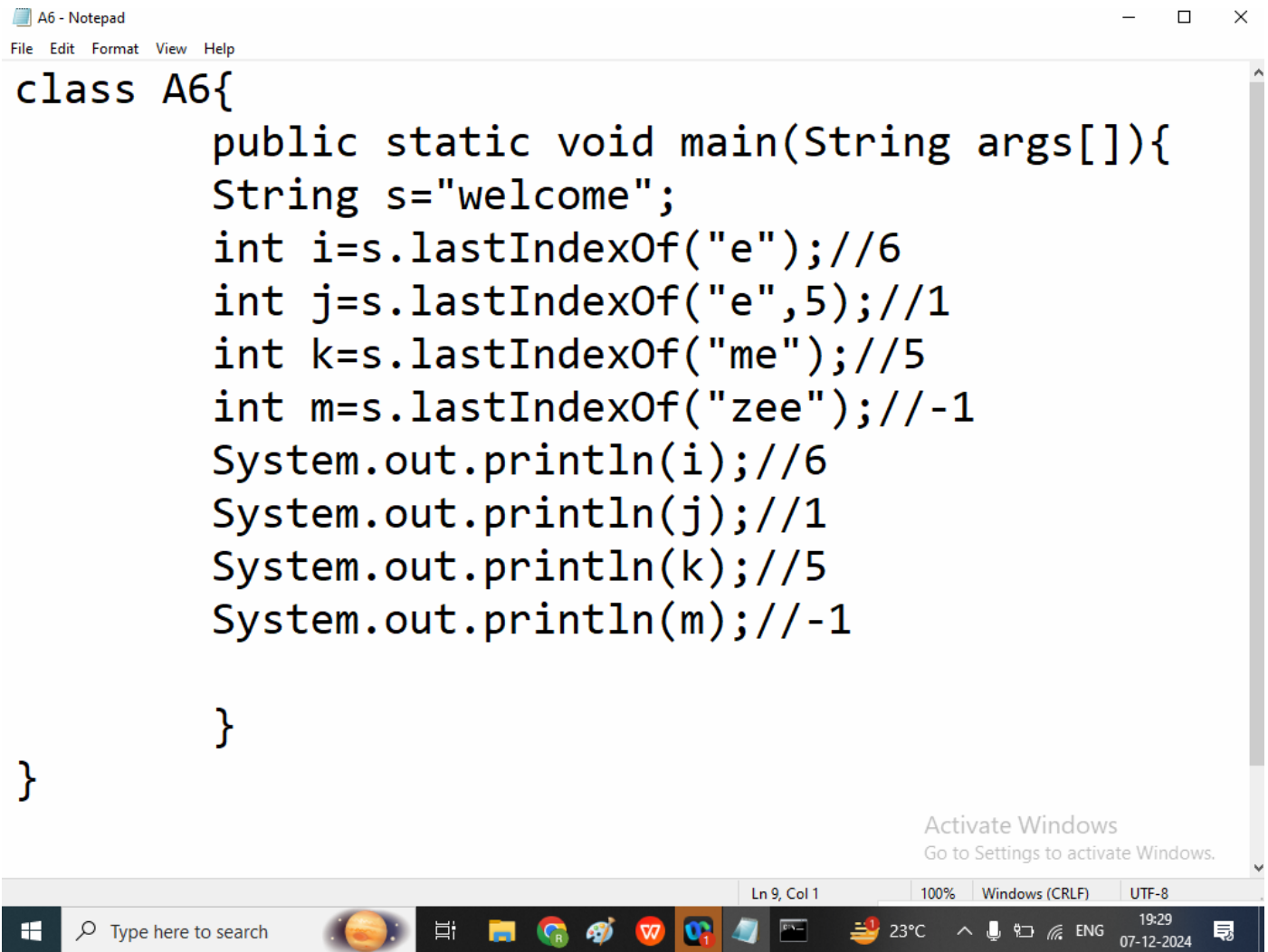
```
String s="welcome";  
int i=s.lastIndexOf("e");//6  
int j=s.lastIndexOf("e",5);//1  
int k=s.lastIndexOf("me");//5
```

```
int m=s.lastIndexOf("zee");//-1
```

Activate Windows
Go to Settings to activate Windows.

437, 306px 1680 x 942px 100%

Type here to search 23°C 19:28 07-12-2024



```
class A6{
    public static void main(String args[]){
        String s="welcome";
        int i=s.lastIndexOf("e");//6
        int j=s.lastIndexOf("e",5);//1
        int k=s.lastIndexOf("me");//5
        int m=s.lastIndexOf("zee");//-1
        System.out.println(i);//6
        System.out.println(j);//1
        System.out.println(k);//5
        System.out.println(m);//-1

    }
}
```

Activate Windows
Go to Settings to activate Windows.

Ln 9, Col 1 100% Windows (CRLF) UTF-8

Windows taskbar: Search, File Explorer, Chrome, Paint, Word, OneDrive, Task View, 23°C, 19:29, 07-12-2024

Q3. Explain String class length method in java programming?

Ans:

It will return number of characters in the String including space

Syntax:

```
int length();
```

Example:

```
String s="welcome";
```

```
int x=s.length();
```

```
int y="a b c".length();//5
```

*A6 - Notepad

File Edit Format View Help

```
class A6{  
    public static void main(String args[]){  
        String s="welcome";  
        int x=s.length();  
        System.out.println(x);//7  
        int y=" a b c".length();  
        System.out.println(y);//6  
    }  
}
```

Activate Windows
Go to Settings to activate Windows.



Q4. Explain String class split() method in java programming?

Ans:

In java the split method is used to split the string on the basis of delimiter(space,).

It also split the string and convert into the array

Syntax:

String [] split(String separator)

```
class A6{  
    public static void main(String args[]){  
        String s="welcome to bhopal";  
        String arr[]=s.split("o");  
        System.out.println(arr[0]);  
        System.out.println(arr[1]);  
        System.out.println(arr[2]);  
        System.out.println(arr[3]);  
    }  
}
```

Command Prompt

```
C:\Users\Admin\Desktop\Java Task>java A6  
welc  
me t  
bh  
pal
```

Activate Windows
Go to Settings to activate Windows.

C:\Users\Admin\Desktop\Java Task>



Type here to search



23°C

ENG

19:45

07-12-2024


```
class A6{  
    public static void main(String args[]){  
        String s="welcome to bhopal";  
        String arr[]=s.split(" ");  
        System.out.println(arr[0]);  
        System.out.println(arr[1]);  
        System.out.println(arr[2]);  
    }  
}
```

Command Prompt

C:\Users\Admin\Desktop\Java Task>javac A6.java

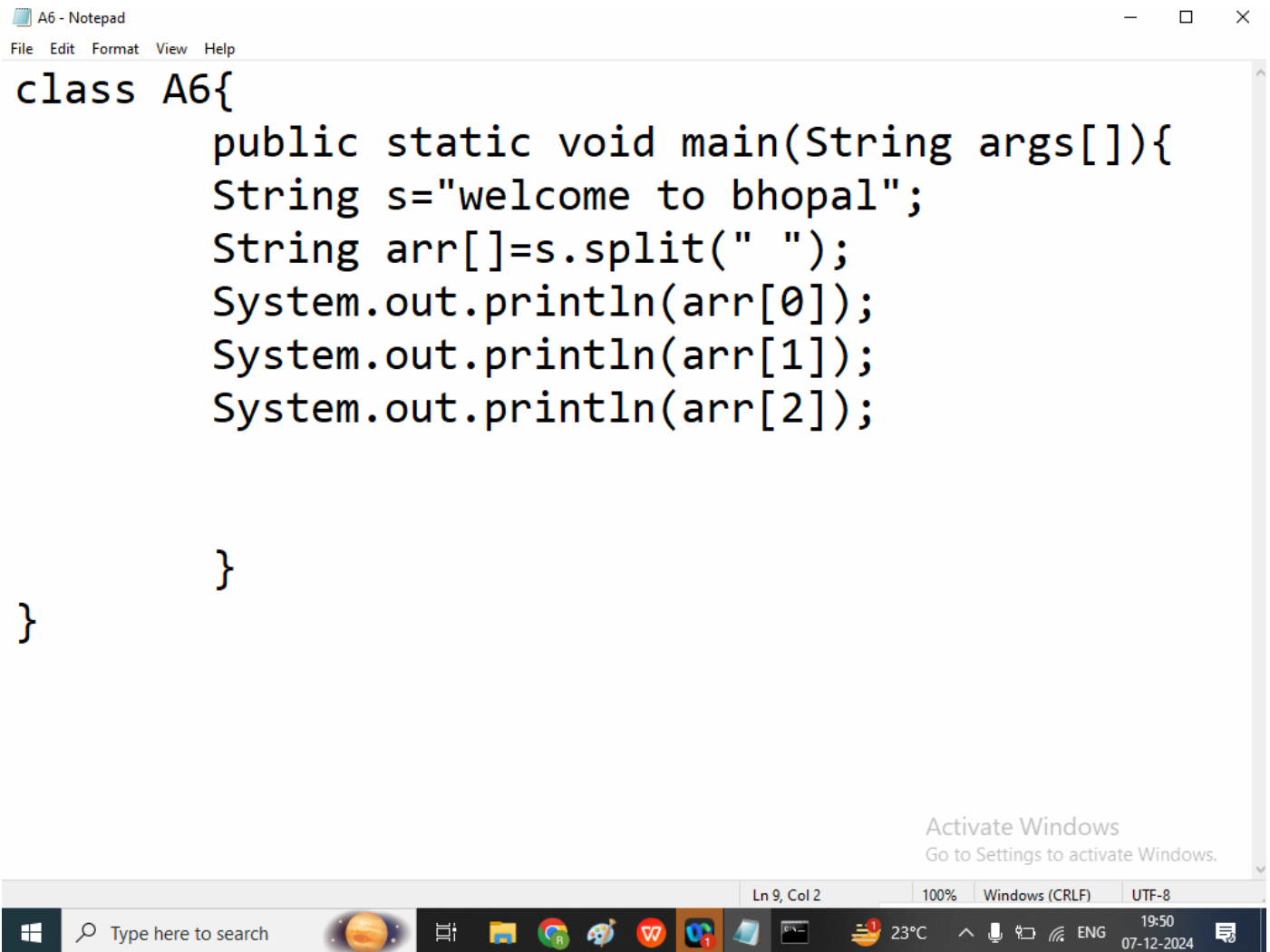
```
C:\Users\Admin\Desktop\Java Task>java A6  
welcome  
to  
bhopal
```

Activate Windows
Go to Settings to activate Windows.



Type here to search





A screenshot of a Notepad window titled 'A6 - Notepad'. The window contains the following Java code:

```
class A6{  
    public static void main(String args[]){  
        String s="welcome to bhopal";  
        String arr[]=s.split(" ");  
        System.out.println(arr[0]);  
        System.out.println(arr[1]);  
        System.out.println(arr[2]);  
    }  
}
```

The status bar at the bottom of the Notepad window shows 'Ln 9, Col 2', '100%', 'Windows (CRLF)', and 'UTF-8'. Below the Notepad window is the Windows taskbar, which includes the Start button, a search bar, and several application icons. The system tray on the right shows the temperature as 23°C, the time as 19:50, and the date as 07-12-2024.

Q5. Explain substring() method in java programming?

Ans:It is used to extract string from the given String on the basis of starting or ending positions

Syntax:

String substring(int start): it will return remaining String from the specified position(starting must be include)

String substring(int start,int end):it will return substring from the specified starting position(starting must be include) and ending position(ending must be exclude end-1)

String s="welcome";

String x=s.substring(3);//come

String y=s.substring(3,5);

A6 - Notepad

File Edit Format View Help

```
class A6{
    public static void main(String args[]){
        String s="welcome";
        String x=s.substring(3);//come
        String y=s.substring(3,5);//co
        System.out.println(x);
        System.out.println(y);
    }
}
```

Command Prompt

```
C:\Users\Admin\Desktop\Java Task>java A6
come
co
```

```
C:\Users\Admin\Desktop\Java Task>
```

Activate Windows
Go to Settings to activate Windows.

Type here to search

Indi... 19:56 07-12-2024