

## **JAVA ASSIGNMENT – WEEK 3**

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### **PROGRAM CODE: (29.07.24)**

```
public class Main{  
    public static void main(String args[]){  
        System.out.println("Appending method:");  
  
        StringBuffer sb = new StringBuffer("Hello");  
        sb.append("Java");  
        System.out.println(sb);  
  
        System.out.println("Insterting : ");  
        sb.insert(1,"java");  
        System.out.println(sb);  
  
        System.out.println("Replacing : ");  
        sb.replace(1,3,"JAVA");  
        System.out.println(sb);  
  
        System.out.println("Deleting : ");  
        sb.delete(1,3);  
        System.out.println(sb);  
  
        System.out.println("Reversing : ");  
        sb.reverse();  
        System.out.println(sb);  
  
        System.out.println("Capacity : ");  
        StringBuffer s = new StringBuffer("");
```

```

System.out.println(s.capacity());

s.append("Hello");

System.out.println(s.capacity());

s.append("Java is my favourite language");

System.out.println(s.capacity()); //now (16*2)+2=34...(i.e)(oldcapacity*2)+2


System.out.println("Ensure capacity : ");

s.ensureCapacity(10); //now no change

System.out.println(s.capacity()); //now 34

s.ensureCapacity(50); // now (34*2)+2

System.out.println(s.capacity()); // now 70

}

}

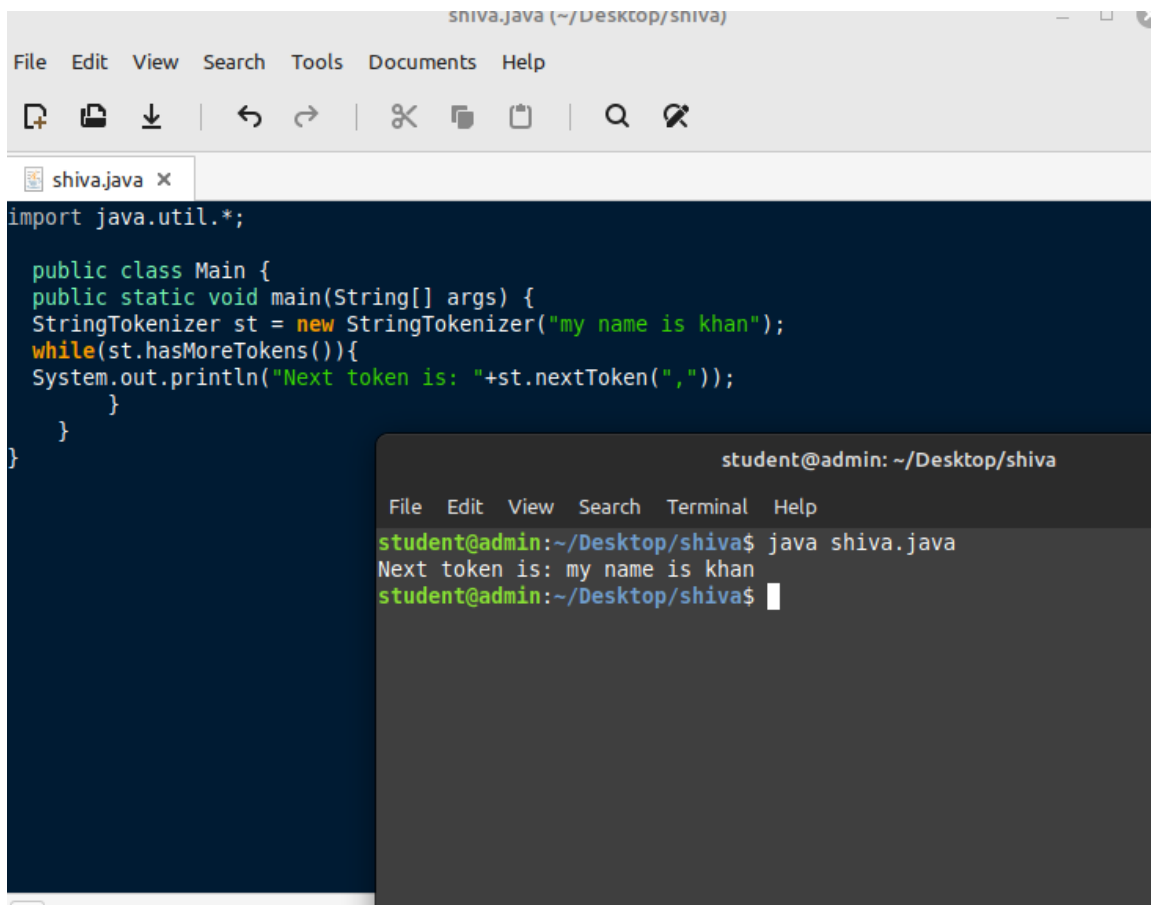
```

```

Run Main x
"C:\Program Files\Java\jdk-22\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ ID
Appending method:
HelloJava
Insterting :
HjavaelloJava
Replacing :
HJAVAvaelloJava
Deleting :
HVAvaelloJava
Reversing :
avaJolleavAVH
Capacity :
16
16
34
Ensure capacity :
34
70

```

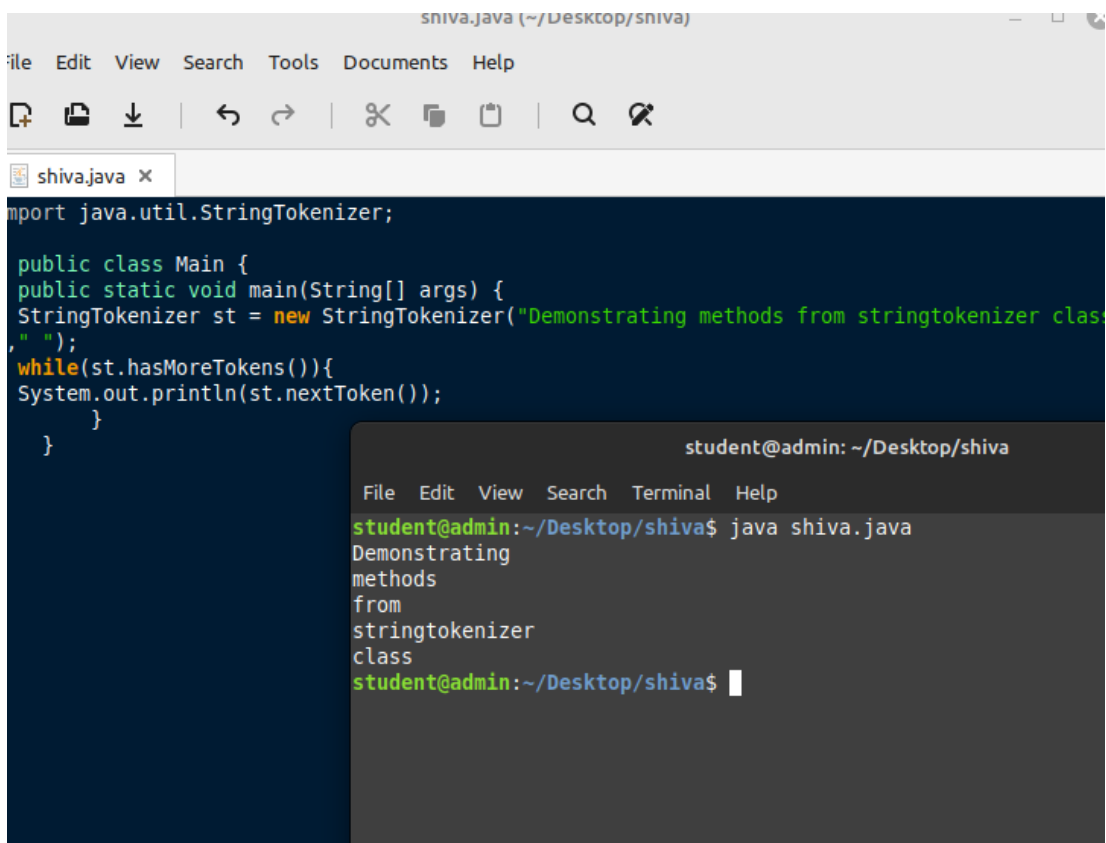
ASSIGNMENT (31.07.24):



```
sniva.java (~/Desktop/sniva)
File Edit View Search Tools Documents Help
shiva.java x
import java.util.*;

public class Main {
    public static void main(String[] args) {
        StringTokenizer st = new StringTokenizer("my name is khan");
        while(st.hasMoreTokens()){
            System.out.println("Next token is: "+st.nextToken(","));
        }
    }
}
```

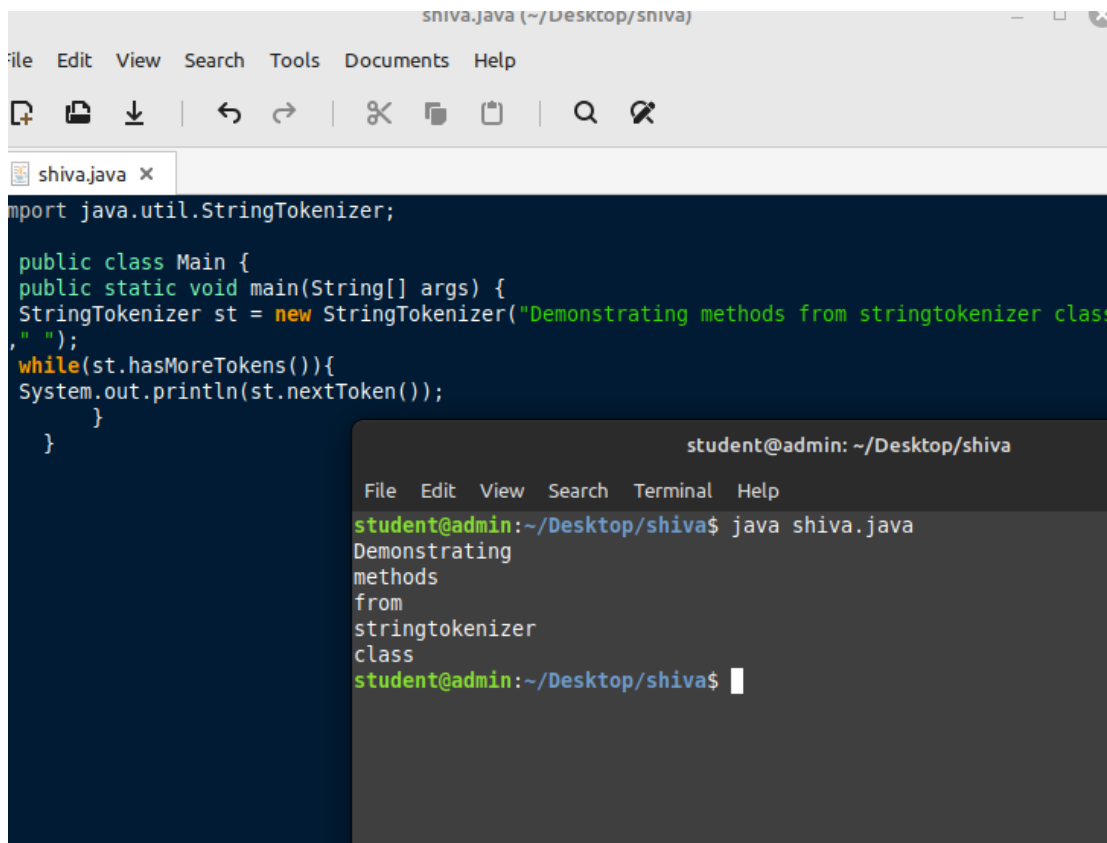
```
student@admin: ~/Desktop/shiva
File Edit View Search Terminal Help
student@admin:~/Desktop/shiva$ java shiva.java
Next token is: my name is khan
student@admin:~/Desktop/shiva$
```



```
sniva.java (~/Desktop/sniva)
File Edit View Search Tools Documents Help
shiva.java x
import java.util.StringTokenizer;

public class Main {
    public static void main(String[] args) {
        StringTokenizer st = new StringTokenizer("Demonstrating methods from stringtokenizer class", " ");
        while(st.hasMoreTokens()){
            System.out.println(st.nextToken());
        }
    }
}
```

```
student@admin: ~/Desktop/shiva
File Edit View Search Terminal Help
student@admin:~/Desktop/shiva$ java shiva.java
Demonstrating
methods
from
stringtokenizer
class
student@admin:~/Desktop/shiva$
```



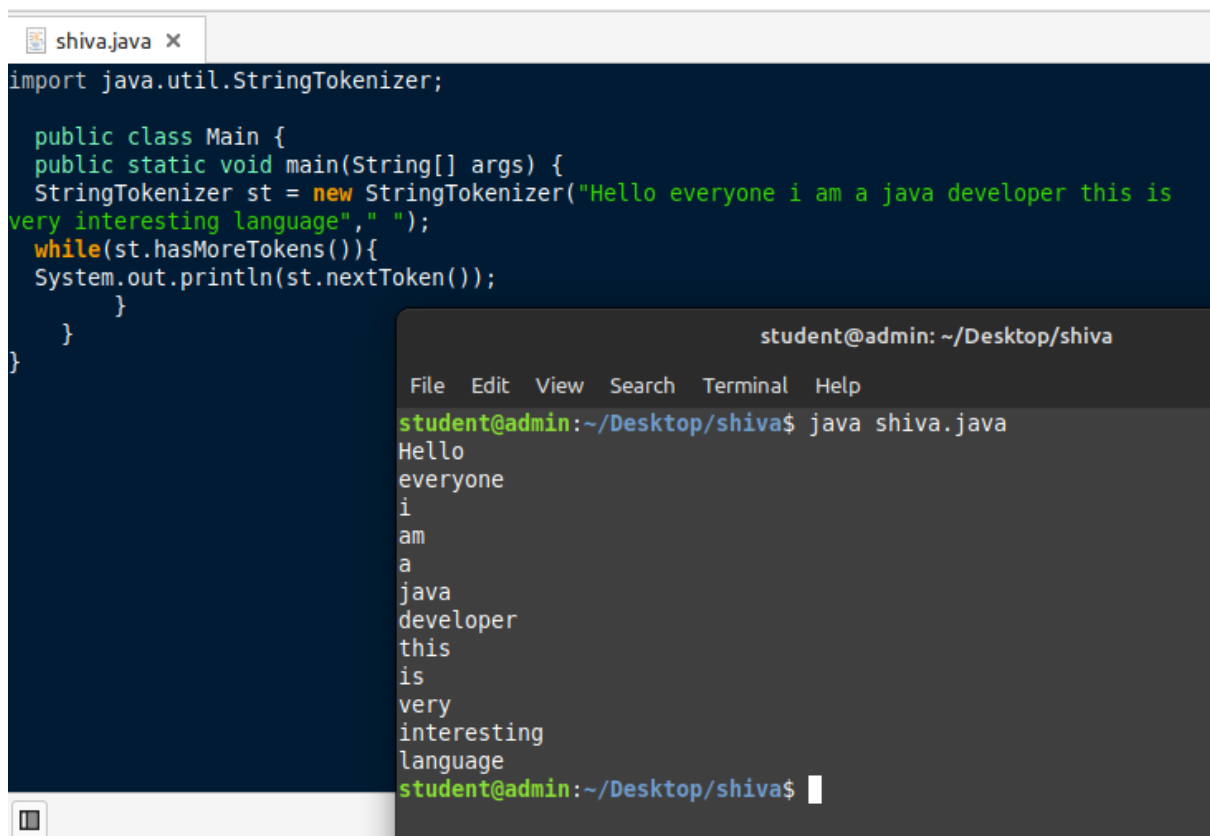
The screenshot shows a code editor window titled "shiva.java (~/Desktop/shiva)" with a menu bar (File, Edit, View, Search, Tools, Documents, Help) and a toolbar. The code in the editor is as follows:

```
import java.util.StringTokenizer;

public class Main {
    public static void main(String[] args) {
        StringTokenizer st = new StringTokenizer("Demonstrating methods from stringtokenizer class", " ");
        while(st.hasMoreTokens()){
            System.out.println(st.nextToken());
        }
    }
}
```

Below the code editor is a terminal window titled "student@admin: ~/Desktop/shiva" with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal shows the command `java shiva.java` being executed, resulting in the following output:

```
Demonstrating
methods
from
stringtokenizer
class
student@admin:~/Desktop/shiva$
```



The screenshot shows a code editor window titled "shiva.java" with a menu bar (File, Edit, View, Search, Tools, Documents, Help) and a toolbar. The code in the editor is as follows:

```
import java.util.StringTokenizer;

public class Main {
    public static void main(String[] args) {
        StringTokenizer st = new StringTokenizer("Hello everyone i am a java developer this is very interesting language", " ");
        while(st.hasMoreTokens()){
            System.out.println(st.nextToken());
        }
    }
}
```

Below the code editor is a terminal window titled "student@admin: ~/Desktop/shiva" with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal shows the command `java shiva.java` being executed, resulting in the following output:

```
Hello
everyone
i
am
a
java
developer
this
is
very
interesting
language
student@admin:~/Desktop/shiva$
```

```
import java.util.StringTokenizer;

public class Main {
    public static void main(String[] args) {
        StringTokenizer st = new StringTokenizer("Hello everyone i am a java developer this is
very interesting language", " ");
        while(st.hasMoreTokens()){
            System.out.println("Total number of Tokens: "+st.countTokens());
        }
    }
}
```

student@

File Edit View Search Terminal Help  
Total number of Tokens: 12

shiva.java x

```
import java.util.StringTokenizer;

public class Main {
    public static void main(String[] args) {
        StringTokenizer st = new StringTokenizer("Hello everyone i am a java developer this is
very interesting language", " ");
        while(st.hasMoreTokens()){
            System.out.println(st.nextElement());
        }
    }
}
```

student@admin: ~/Desktop/shiva

File Edit View Search Terminal Help

student@admin:~/Desktop/shiva\$ java shiva.java

Hello

everyone

i

am

a

java

developer

this

is

very

interesting

language

student@admin:~/Desktop/shiva\$

```
public class Main {  
    public static void main(String[] args) {  
        int [] arr;  
        arr = new int[5];  
        arr[0]=10;  
        arr[1]=20;  
        arr[3]=30;  
        arr[4]=40;  
  
        for(int i=0;i<arr.length;i++){  
            System.out.printf("element at index\n"+i+": "+arr[i]);  
        }  
    }  
}
```

student@admin: ~/Desktop/shiva

File Edit View Search Terminal Help

student@admin:~/Desktop/shiva\$ java shiva.java

element at index

0:10element at index

1:20element at index

2:0element at index

3:30element at index

4:40student@admin:~/Desktop/shiva\$