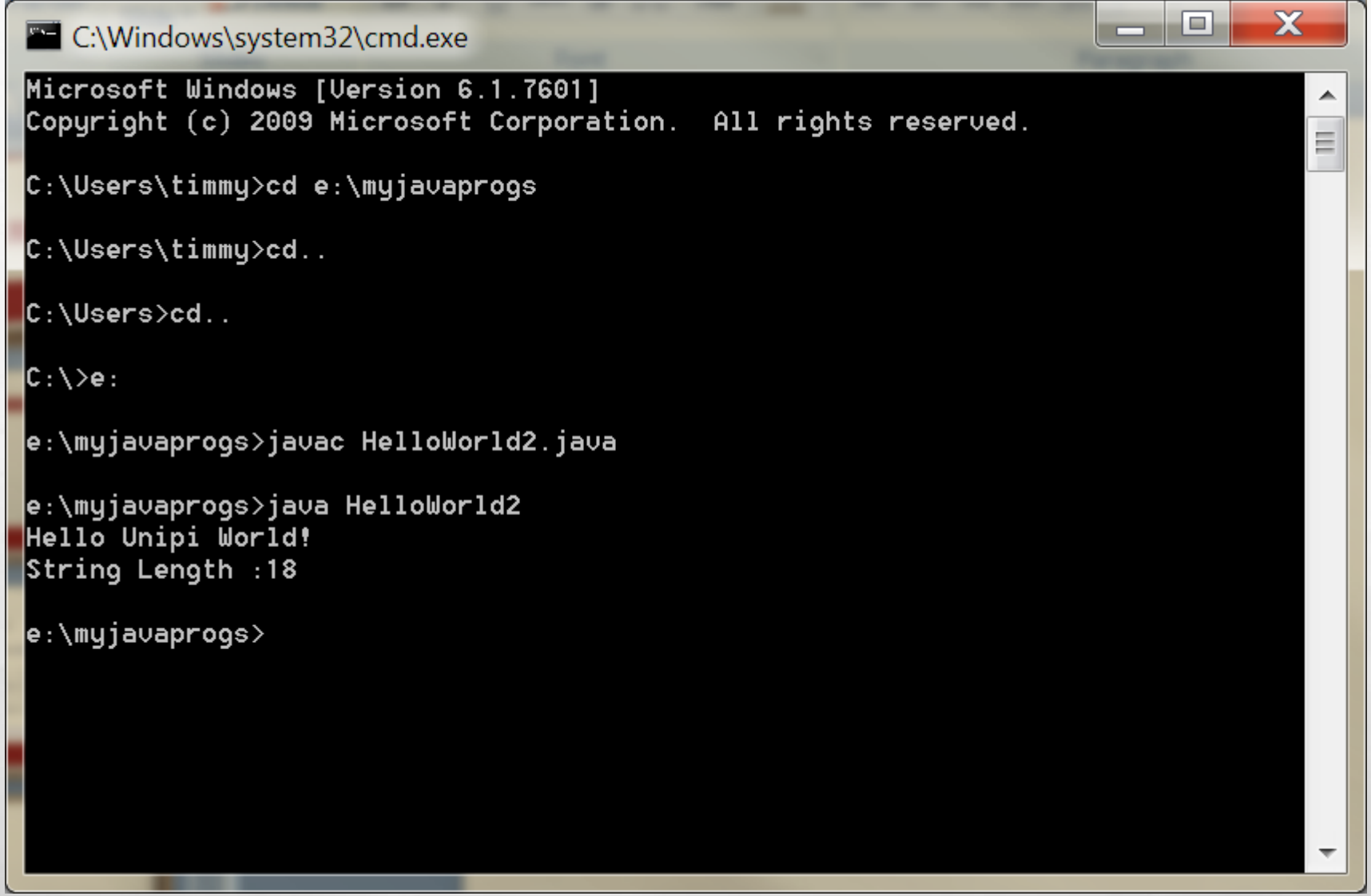
JAVA STRING HANDLING

STRING CLASS METHODS

- STRING LENGTH
- STRING CONCATENATION (YOU ALREADY KNOW THAT)
- COMPARING STRINGS
- FIND AN INDEX WITHIN THE STRING
- EXPRESSION MATCHING
- STRING REPLACEMENTS
- ENDSWITH/STARTSWITH CHECKS
- LOWERCASE/UPPERCASE CONVERTIONS
- STRING REPLACEMENTS
- STRING SEARCH

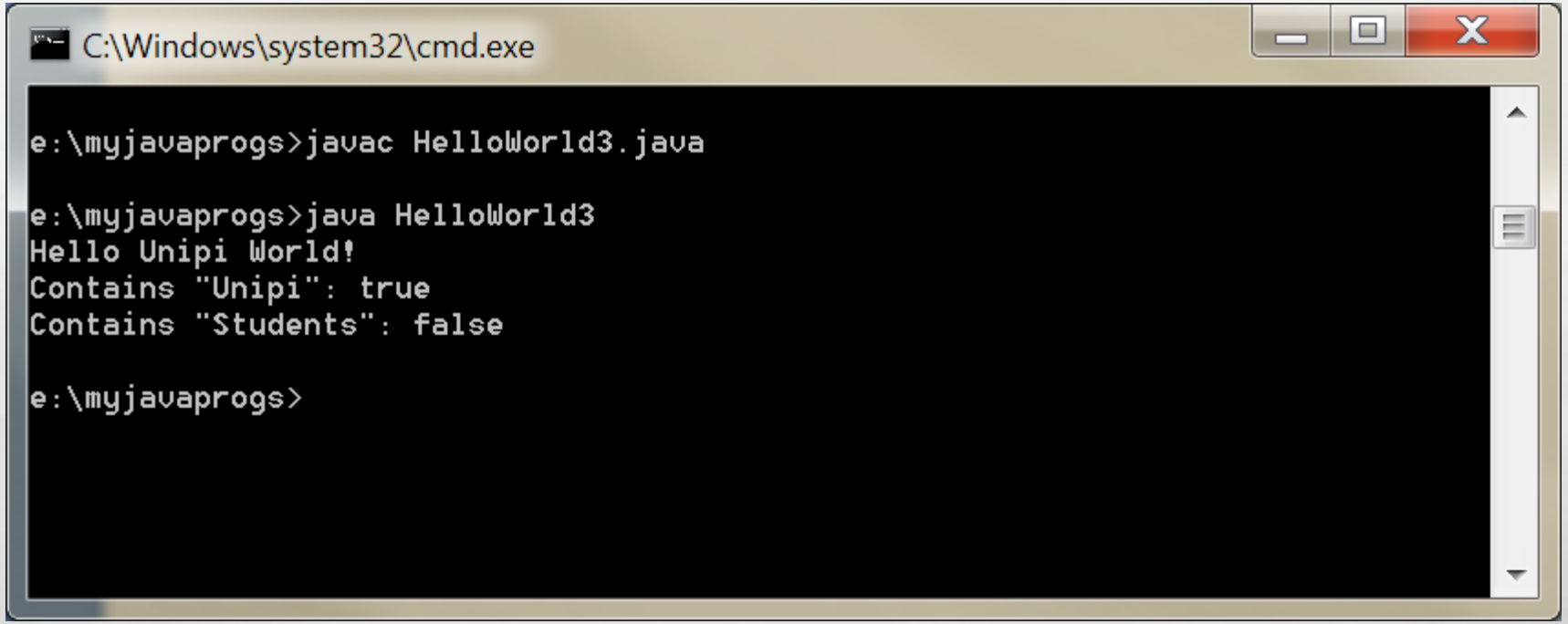
STRING LENGTH

```
public class HelloWorld2
{
  public static void main(String[] args)
  {
    String str1 = "Hello Unipi World!";
    System.out.println(str1);
    System.out.print("String Length :" );
    System.out.println(str1.length());
  }
}
```


C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.
C:\Users\timmy>cd e:\myjavaprogs
C:\Users\timmy>cd..
C:\Users>cd..
C:\>e:
e:\myjavaprogs>javac HelloWorld2.java
e:\myjavaprogs>java HelloWorld2
Hello Unipi World!
String Length :18
e:\myjavaprogs>

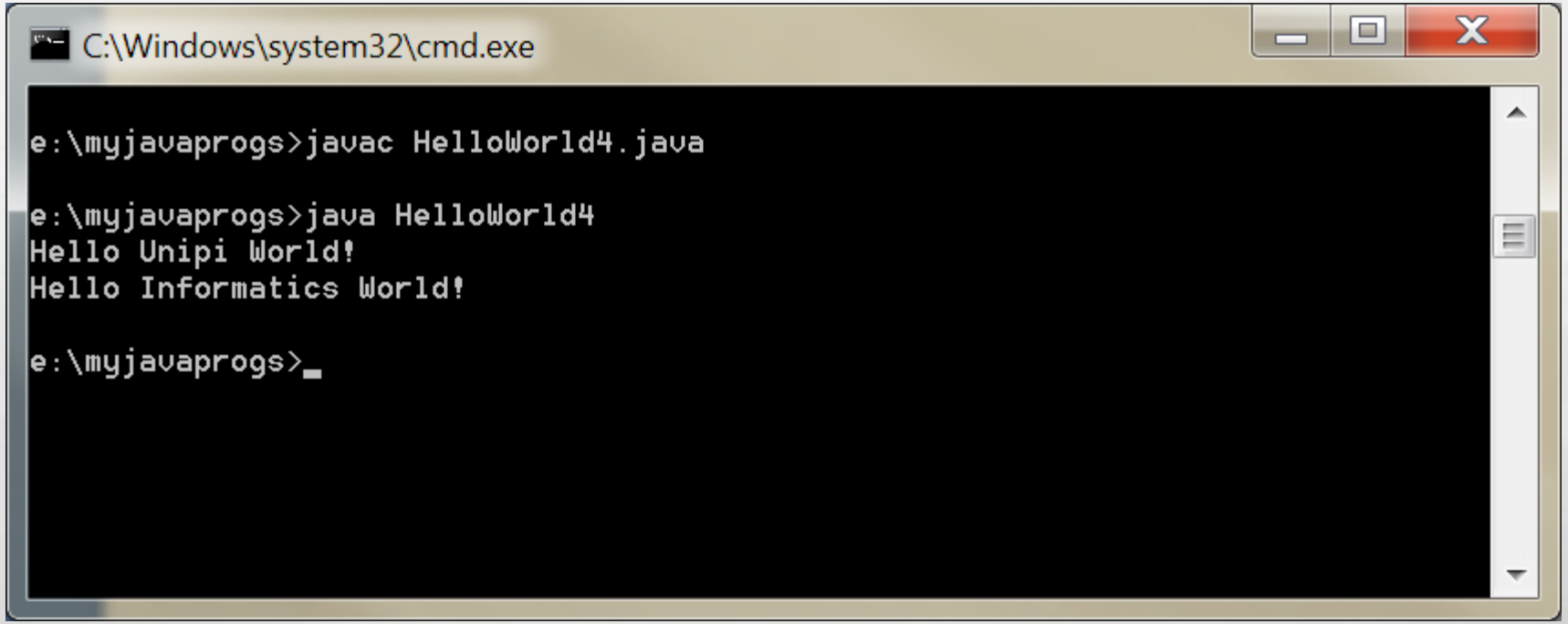
STRING SEARCH

```
public class HelloWorld3
{
  public static void main(String[] args)
  {
    String str1 = "Hello Unipi World!";
    System.out.println(str1);
    System.out.println("Contains \"Unipi\": "+str1.contains("Unipi"));
    System.out.println("Contains \"Students\": "+str1.contains("Students"));
  }
}
```


C:\Windows\system32\cmd.exe
e:\myjavaprogs>javac HelloWorld3.java
e:\myjavaprogs>java HelloWorld3
Hello Unipi World!
Contains "Unipi": true
Contains "Students": false
e:\myjavaprogs>

STRING REPLACE

```
public class HelloWorld4
{
  public static void main(String[] args)
  {
    String str1 = "Hello Unipi World!";
    System.out.println(str1);
    String replaceString=str1.replace("Unipi","Informatics");
    System.out.println(replaceString);
  }
}
```

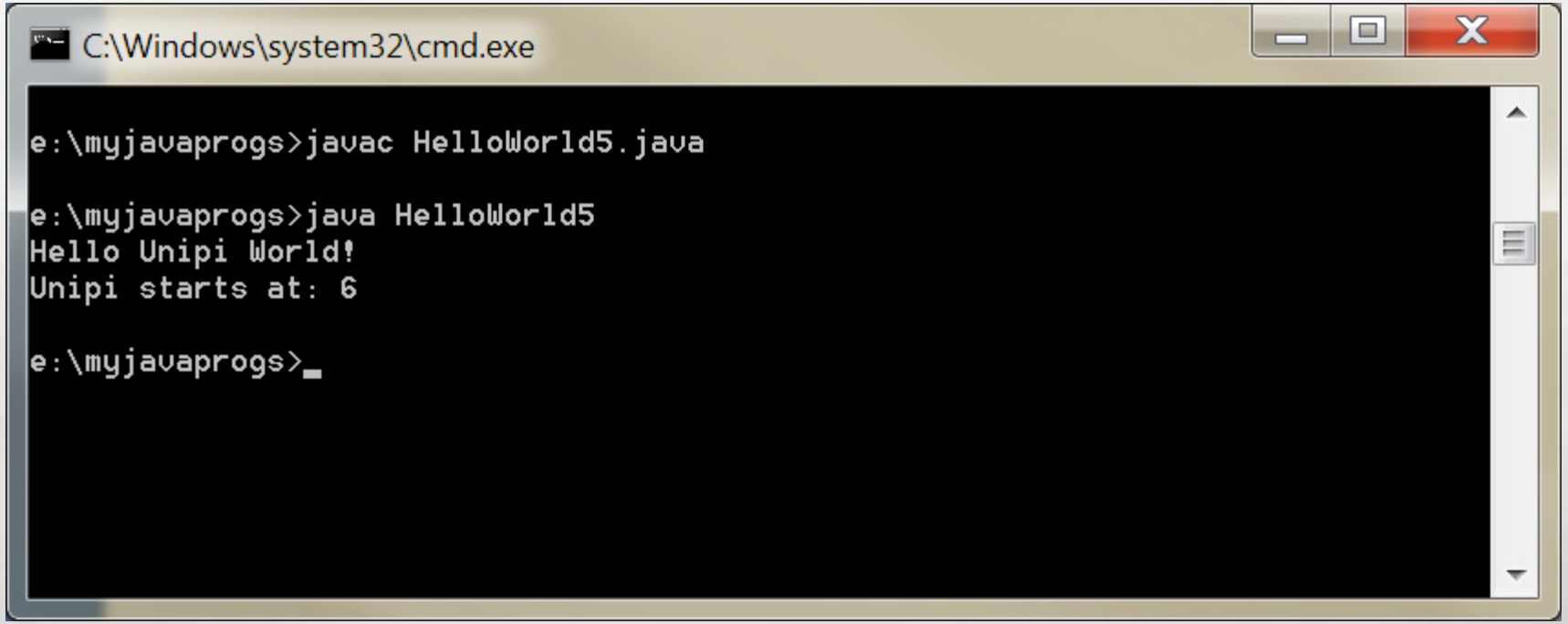

C:\Windows\system32\cmd.exe
e:\myjavaprogs>javac HelloWorld4.java
e:\myjavaprogs>java HelloWorld4
Hello Unipi World!
Hello Informatics World!
e:\myjavaprogs>

STRING INDEXOF 1/2

No.	Method	Description
1	int indexOf(int ch)	returns index position for the given char value
2	int indexOf(int ch, int fromIndex)	returns index position for the given char value and from index
3	int indexOf(String substring)	returns index position for the given substring
4	int indexOf(String substring, int fromIndex)	returns index position for the given substring and from index

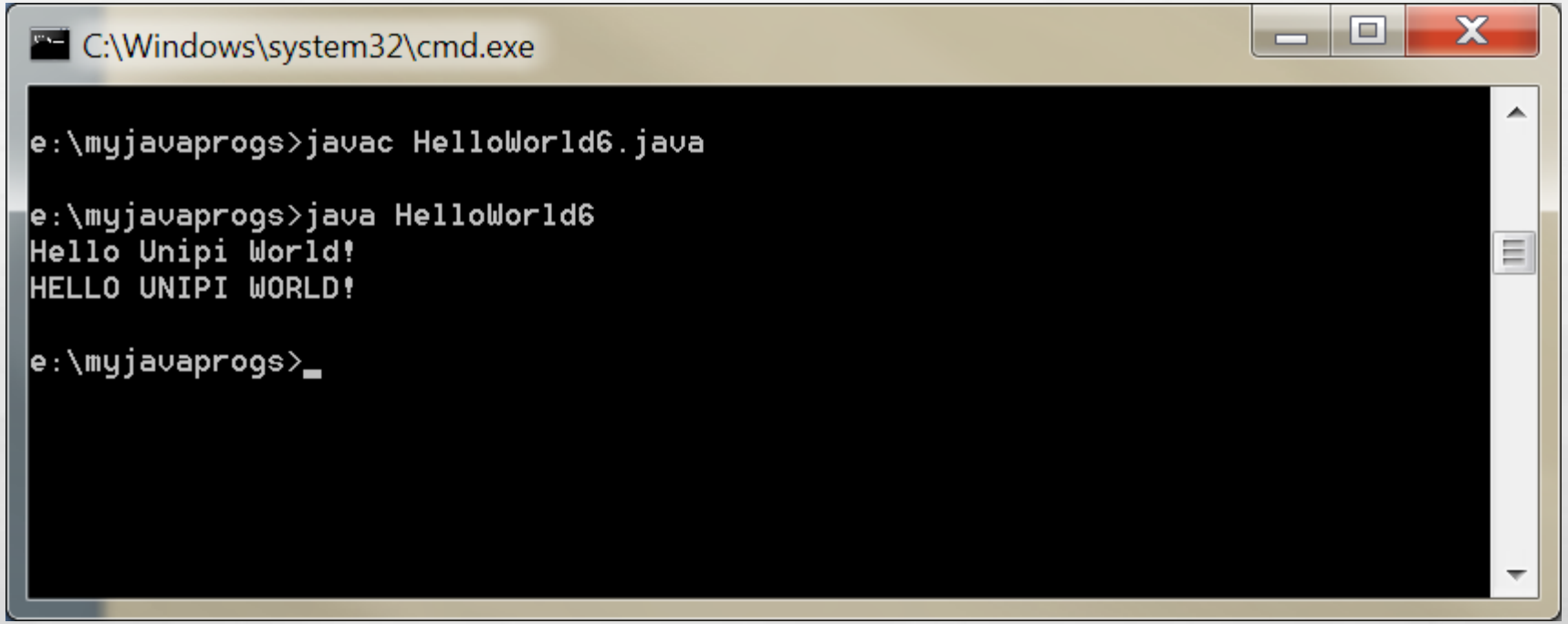
STRING INDEXOF 2/2

```
public class HelloWorld5
{
  public static void main(String[] args)
  {
    String str1 = "Hello Unipi World!";
    System.out.println(str1);
    int index1=str1.indexOf("Unipi");
    System.out.println("Unipi starts at: "+index1);
  }
}
```


C:\Windows\system32\cmd.exe
e:\myjavaprogs>javac HelloWorld5.java
e:\myjavaprogs>java HelloWorld5
Hello Unipi World!
Unipi starts at: 6
e:\myjavaprogs>

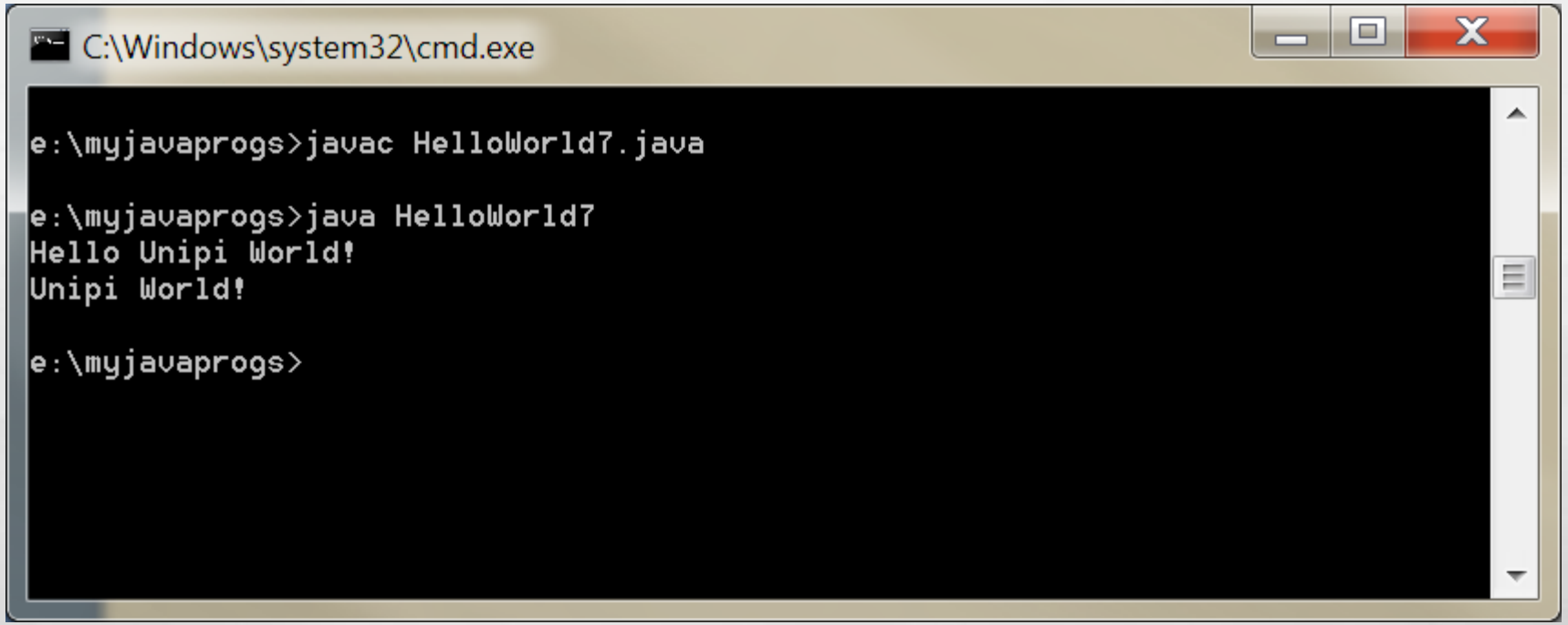
STRING UPPERCASE

```
public class HelloWorld6
{
  public static void main(String[] args)
  {
    String str1 = "Hello Unipi World!";
    System.out.println(str1);
    String str1upper=str1.toUpperCase();
    System.out.println(str1upper);
  }
}
```


C:\Windows\system32\cmd.exe
e:\myjavaprogs>javac HelloWorld6.java
e:\myjavaprogs>java HelloWorld6
Hello Unipi World!
HELLO UNIPI WORLD!
e:\myjavaprogs>

SUBSTRING

```
public class HelloWorld7
{
  public static void main(String[] args)
  {
    String str1 = "Hello Unipi World!";
    System.out.println(str1);
    String sbstr1 = str1.substring(6, 18);
    System.out.println(sbstr1);
  }
}
```


C:\Windows\system32\cmd.exe
e:\myjavaprogs>javac HelloWorld7.java
e:\myjavaprogs>java HelloWorld7
Hello Unipi World!
Unipi World!
e:\myjavaprogs>

ITS TIME TO EXERCISE!

Given the string: "We are students of the Department of Informatics. All students should know how to program in Java and C."

Exercise1: Write a program that prints the substring of the above string that starts with "Department" and ends with "should know". (don't count with your fingers..)

Exercise2: Write a program that counts the number of "students" occurrences in the above string and prints it.