

Philip Pesic

Week 8

March 12 2023

Week 8 Prog 4

Given the following working code:

```
1. public class AsciiValue {  
2.  
3. public static void main(String[] args) {  
4.  
5. char ch = 'a';  
6. int ascii = ch;  
7. // You can also cast char to int  
8. int castAscii = (int) ch;  
9.  
10. System.out.println("The ASCII value of " + ch + " is: " + ascii);  
11. System.out.println("The ASCII value of " + ch + " is: " + castAscii);  
12. }  
13. }
```

Convert it like as you did to assignment 4, where you have a mainDrive class and an AsciiValue class

```
package Prog4;  
  
public class ascii {  
  
    private char ch;  
    private int ascii;  
    private int castAscii;
```

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```
    public ascii() {
        ch = '!';
        ascii = ch;
        castAscii = (int) ch;
    }

    public void asciiOut() {
        System.out.println("The ASCII value of " + ch + " is: " + ascii);
        System.out.println("The ASCII value of " + ch + " is: " + castAscii);
    }
}

package Prog4;

class prog4 {
    public static void main(String[] args) {
        ascii conversion = new ascii();
        conversion.asciiOut();
        System.out.println("Philip Pesic 3/12/23");
    }
}
```

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The screenshot shows an IDE with a dark theme. On the left, the Explorer panel shows a project named 'PROGRAMS' with several sub-projects: Prog1, Prog2, Prog3, Prog4, and Prog5. Each sub-project contains a Java file (e.g., car.java, prog1.java, evenOdd.java, prog3.java, prog4.java, prog5.java). The main editor displays the code for 'prog4.java', which defines a class 'ascii' with a method 'ascii()' and a static method 'asciiOut()'. The 'ascii()' method takes a character 'ch' and returns its ASCII value as an integer. The 'asciiOut()' method prints the ASCII value of '!' and the character '!'.

```
1 package Prog4;
2
3 public class ascii {
4
5     private char ch;
6     private int ascii;
7     private int castAscii;
8
9     public ascii() {
10         ch = '!';
11         ascii = ch;
12         castAscii = (int) ch;
13     }
14
15     public void asciiOut() {
16         System.out.println("The ASCII value of " + ch + " is: " + ascii);
17         System.out.println("The ASCII value of " + ch + " is: " + castAscii);
18     }
19 }
20
```

Below the editor, the Terminal panel shows the output of the program:

```
+ programs git:(main) * /usr/bin/env /Library/Java/JavaVirtualMachines/temurin-17.jdk/Contents/Home/bin/java -XX:+ShowCodeDetailsInExceptionMessages -cp /Users/pippo/Library/Application\ Support/Code/User/workspaceStorage/22c4307d96062487fd5e27841783c9f4/redhat.java/jdt_ws/Programs_9487a408/bin Prog4.prog4
The ASCII value of a is: 97
The ASCII value of a is: 97
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+ programs git:(main) * cd /Users/pippo/github/cs284/week8/programs ; /usr/bin/env /Library/Java/JavaVirtualMachines/temurin-17.jdk/Contents/Home/bin/java -XX:+ShowCodeDetailsInExceptionMessages -cp /Users/pippo/Library/Application\ Support/Code/User/workspaceStorage/22c4307d96062487fd5e27841783c9f4/redhat.java/jdt_ws/Programs_9487a408/bin Prog4.prog4
The ASCII value of ! is: 33
The ASCII value of ! is: 33
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+ programs git:(main) *
```

The status bar at the bottom indicates the current file is 'main\*' and provides information about the editor's state, including line and column numbers, spaces, encoding, and language.

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The screenshot shows an IDE with a project named 'Programs'. The 'EXPLORER' sidebar on the left lists files: 'Prog1', 'car.java', 'prog1.java', 'Prog2', 'prog2.java', 'Prog3', 'evenOdd.java', 'prog3.java', 'Prog4', 'ascii.java', 'prog4.java', and 'Prog5'. The 'prog4.java' file is open in the editor, showing the following code:

```
1 package Prog4;
2
3 class prog4 {
4     public static void main(String[] args) {
5         ascii conversion = new ascii();
6         conversion.asciiOut();
7         System.out.println("Philip Pesic 3/12/23");
8     }
9 }
10
```

The 'TERMINAL' tab at the bottom shows the output of running the program:

```
programs git:(main) * /usr/bin/env /Library/Java/JavaVirtualMachines/temurin-17.jdk/Contents/Home/bin/java -XX:+ShowCodeDetailsInExceptionMessages -cp /Users/pipipo/Library/Application\ Support/Code/User/workspaceStorage/22c4307d96062487fd5e27841783c9f4/redhat.java/jdt_ws/Programs_9487a408/bin Prog4.prog4
The ASCII value of a is: 97
The ASCII value of a is: 97
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programs git:(main) * cd /Users/pipipo/github/cs284/week8/programs ; /usr/bin/env /Library/Java/JavaVirtualMachines/temurin-17.jdk/Contents/Home/bin/java -XX:+ShowCodeDetailsInExceptionMessages -cp /Users/pipipo/Library/Application\ Support/Code/User/workspaceStorage/22c4307d96062487fd5e27841783c9f4/redhat.java/jdt_ws/Programs_9487a408/bin Prog4.prog4
The ASCII value of ! is: 33
The ASCII value of ! is: 33
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programs git:(main) *
```

I learned how to convert ascii characters to binary numbers