Kayvaun Khoshkhou

CSC 211-03

HexDigit2Dec.java

```
import java.util.Scanner;
    public class HexDigit2Dec {
        public static void main(String[] args) {
            Scanner input = new Scanner(System.in);
            System.out.print("Enter a hex digit: ");
            String hexString = input.nextLine();
            // This "if" statement checks to see if the hexString entered by the user
is more than 1 character.
            // If the user enters more than one character it will output an error
messages and exit the program.
            if (hexString.length() != 1) {
                System.out.println("You must enter exactly one character");
                System.exit(1);
            }
            // This statement restricts the output to only display 1 character.
            char ch = hexString.charAt(0);
            if (ch <= 'F' && ch >= 'A') {
                int value = ch - 'A' + 10;
                System.out.println("The decimal value for hex digit " + ch + " is " +
value);
            }
            else if (Character.isDigit(ch)) {
                System.out.println("The decimal value for hex digit " + ch + " is " +
ch);
            }
            else {
                System.out.println(ch + " is an invalid input");
            }
        }
    }
```

OUTPUT: