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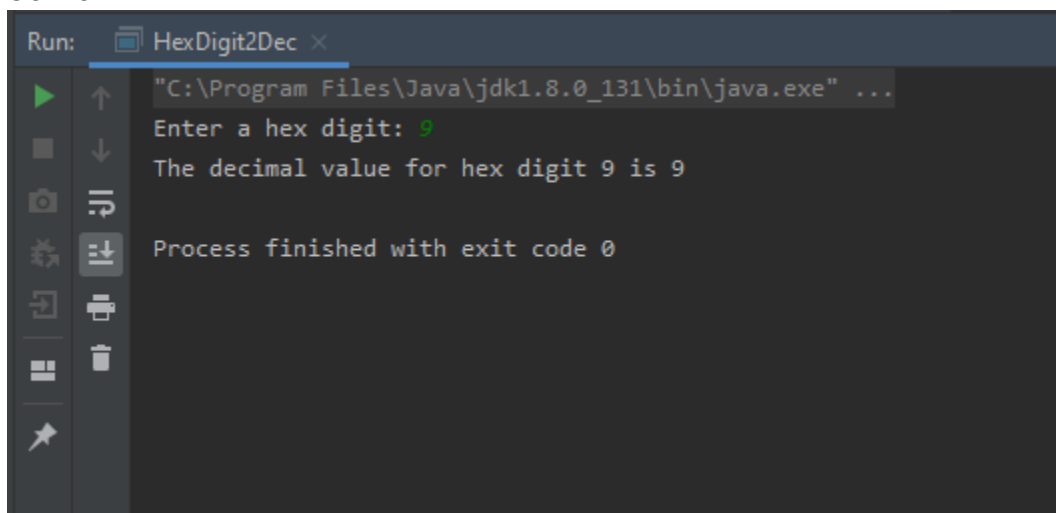
CSC 211-03

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:



```
Run: HexDigit2Dec x
"C:\Program Files\Java\jdk1.8.0_131\bin\java.exe" ...
Enter a hex digit: 9
The decimal value for hex digit 9 is 9
Process finished with exit code 0
```