

CSCI212 Spring 2018

Lab-2

Goals

- To use Scanner methods to read String, int, double variables.
- To read Strings.
- To read char data, you need to read String and use charAt() method.
- A second way is to convert the string to a char[] using str.toCharArray().
- **Those of you that do not complete the task, should go home and complete this work by Monday and I will check it in the lab.**

Problem 1

```
import java.util.Scanner;
public class ScannerDemo{
    public static void main(String[] args){

        Scanner scan = new Scanner(System.in);

        System.out.println("Enter two integers");
        int p, q;
        p = scan.nextInt();
        q = scan.nextInt();

        System.out.println("Enter two doubles separated be space");
        double x, y;
        x = scan.nextDouble();
        y = scan.nextDouble();

        System.out.println("You entered " + x + " and " + y);

        String fullname;
        System.out.println("Enter your full name");
        fullname = scan.nextLine();
    }
}
```

```

        //print name in reverse.
        int len = fullname.length() //String method to read string length
        for(int i = len-1; i>= 0; i--)
            System.out.print(fullname.charAt(i));

        System.out.println();
        System.out.println("Enter two words");

        String s1, s2;
        s1 = scan.next();
        s2 = scan.next();

        System.out.println("You entered " + s1 + " " and " + s2 + " " );
    }
}

```

Problem 2

Write a program that converts degrees from Fahrenheit to Celsius, using the formula

$$DegreesC = 5(DegreesF - 32)/9$$

prompt the user to enter a temperature in degrees Fahrenheit as a whole number without a fractional part. Then have the program display the equivalent Celsius temperature, including the fractional part to at least one decimal point. A possible dialogue with user might be

Enter a temperature in degrees Fahrenheit: 72
 72 degrees fahrenheit is 22.2 degrees Celsius.