

**CSC 209 JAVA I**

**week 1 and 2- introduction to java application**

**Objectives:**

- ***Text-printing.***
- ***Printing one line of text with multiple statements.***
- ***Printing multiple lines with a single statement.***
- ***Printing multiple lines in a dialog box.***
- ***Input values by using Scanner***

**Examples:**

[Example 1](#)

---

Write and execute complete java program which print single line, multi-line, and display a text within message box.

***Text-printing program.***

```
public class Welcome1 {  
  
    // main method begins execution of Java application  
    public static void main( String args[] )  
    {  
        System.out.println( "Welcome to Java Programming!" );  
  
    } // end method main  
  
} // end class Welcome1
```

***Printing one line of text with multiple statements.***

```
public class Welcome2 {  
  
    // main method begins execution of Java application  
    public static void main( String args[] )  
    {  
        System.out.print( "Welcome to " );  
        System.out.println( "Java Programming!" );  
  
    } // end method main  
} // end class Welcome2
```

## ***Printing multiple lines with a single statement.***

```
public class Welcome3 {  
  
    // main method begins execution of Java application  
    public static void main( String args[] )  
    {  
        System.out.println( "Welcome\nto\nJava\nProgramming!" );  
  
    } // end method main  
  
} // end class Welcome3
```

## ***Printing multiple lines in a dialog box.***

```
import javax.swing.JOptionPane; // program uses JOptionPane  
  
public class Welcome4 {  
  
    // main method begins execution of Java application  
    public static void main( String args[] )  
    {  
        JOptionPane.showMessageDialog(  
            null, "Welcome\nto\nJava\nProgramming!" );  
  
        System.exit( 0 ); // terminate application with window  
  
    } // end method main  
  
} // end class Welcome4
```

### Example 2

***Write and execute complete java program which compute area of Circle. Your program reads in radius, and computes area using the following formula***  
***Area= 3.14 \* radius \* radius.***

Alg.

1. define local variables
2. read in radius

Use nextInt method of the Scanner object (input) to read integer value from the K.B.

3. compute the area using the following formula:  
     $area = 3.14 * radius * radius;$
4. display the result



H.W Exercise:

Write a program that convert Fahrenheit to Celsius. The formula for the conversion is as follows:

$$\text{Celsius} = (5/9) * (\text{Fahrenheit} - 32)$$

Your program reads a Fahrenheit degree in double from the keyboard, then converts it to Celsius and displays the result.

*Submit your answer as*

*Algorithm*

*Flowchart*

*Java Source code*

*Output*

