Java Programming

— Basics of Java Programming: Output —

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Example1

Problem

Output "Hello." on the display.

```
┌─ Hello.java ─────────────────────────────────────────────┐

  public class Hello {
    public static void main(String[] args) {
      {\color{red}System.out.println("Hello.");}/*Output the message*/
    }
  }

└──────────────────────────────────────────────────────────┘
```

Output to a display (1)

System.out.println()   Output characteristics and values with line break

System.out.print()   Output characteristics and values without line break

Output a string1

```
System.out.println("Hello.");
System.out.print("Good ");
System.out.println("morning.");
```

```
Hello.
Good morning.
```

Output a string2

```
System.out.println("Hello.\nGood morning.");
```

```
Hello.
Good morning.
```

Output to a display (2)

Output values

```
System.out.println(5);
System.out.print(5*3-1);
System.out.println("5*3-1");
```

```
5
14
5*3-1
```

String and number concatenation

```
System.out.println("5*3-1 = " + 14);
```

```
5*3-1 = 14
```

Example2

Problem

When height is 173.0cm, calculate the standard weight using the following equation and output the result to the display.

$$\text{Std. weight(kg)} = \text{Height(m)}^2 \times 22$$

Example Program

```
public class Weight{
  public static void main(String[] args){
    System.out.println("Height : 1.73m");
    System.out.println("Standard weight : "+ (1.73*1.73*22) + "kg");
  }
}
```

- Write a source file using an editor
- Compile a source file using javac command
- Run a class file using java command