CSE 215L: Programming Language II Lab
Section: 7

Fall 2020

Naming Conventions

- Class: start with uppercase letter
- Interface: start with uppercase letter
- Package: lowercase letters
- Method: start with lowercase letter
- Variable: start with lowercase letter
- Constant: uppercase letters

Example: user input read

```
package myWorkspace;
import java.util.Scanner;

public class Myclass
   {
   public static void main(String[] args)
         {
          Scanner input = new Scanner(System.in);
          String name = input.next();
          System.out.println(name);
   }
}
```

```
String text =  “hello students”;

String text = “hello” + “students”;

String s = “ lab” + “class” + 2;

Text += “, today is “ + s;
```

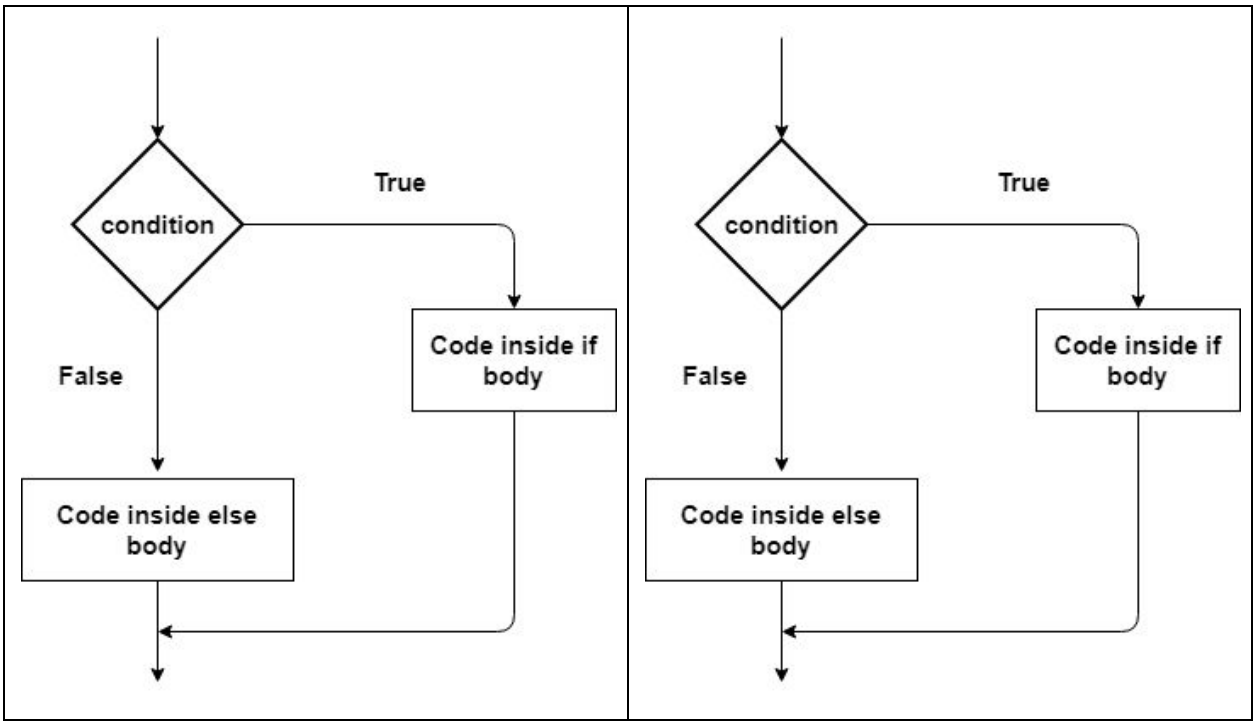
```
System.out.print("Mr. and Mrs. Dursley of number four, Privet Drive, were proud to say that they were perfectly normal, thank you very much.");
```

This will create a compile error. The correct way:

```
System.out.print("Mr. and Mrs. Dursley of number four, Privet Drive, were proud to” + “say that they were perfectly normal, thank you very much.");
```

If-Else Statement	**Switch Statement**

if(condition){
  //code
} else{
  //code
}
	Switch(expression)
	{
	  case 1:
	  //code for case 1
	  break;
	  case 2:
	  //code for case 2
	  Break;
	  default:
	  //code
	}



Example: If-Else

Example: if-else

```
public class IfElseExample
{
public static void main(String[] args)
{
   //defining a variable
   int number=13;
   //Check if the number is divisible by 2 or not
   if(number%2==0){
      System.out.println("even number");
   }else{
      System.out.println("odd number");
   }
}
}
```

Ternary Operator

Example: Ternary operator

```
public class IfElseTernaryExample
{
public static void main(String[] args)
{
    int number=13;
    //Using ternary operator
    String output = (number%2==0) ? "even number" : "odd number";
    System.out.println(output);
}
}
```

Nested If-Else

Example: Nested if-else

```
public class JavaNestedIfExample
{
public static void main(String[] args)
{
   //Creating two variables for age and weight
   int age, weight;

   //applying condition on age and weight
   if(age>=18){
       if(weight>50){
          System.out.println("You are eligible to donate blood");
       } else{
          System.out.println("You are not eligible to donate blood");
       }
    } else{
     System.out.println("Age must be greater than 18");
    }
 }
}
```

Example-Switch Statement

```
public class SwitchVowelExample {
public static void main(String[] args) {
   char ch='O';
   switch(ch)
   {
      case 'a':
         System.out.println("Vowel");
         break;
      case 'e':
         System.out.println("Vowel");
         break;
      case 'i':
         System.out.println("Vowel");
         break;
      case 'o':
         System.out.println("Vowel");
         break;
      case 'u':
         System.out.println("Vowel");
         break;
      case 'A':
         System.out.println("Vowel");
         break;
      case 'E':
         System.out.println("Vowel");
         break;
      case 'I':
         System.out.println("Vowel");
         break;
      case 'O':
         System.out.println("Vowel");
         break;
      case 'U':
         System.out.println("Vowel");
         break;
      default:
         System.out.println("Consonant");
   }
}
}
```