Data Types:

int

double

char

boolean

String

print:

System.*out*.println();

input:

import java.util.Scanner;

Scanner input = new Scanner(System.*in*);

Return:

public static double calculateTotalMealPrice(double listedMealPrice,  
 double tipRate,  
 double taxRate) {  
 double tip = tipRate \* listedMealPrice;  
 double tax = taxRate \* listedMealPrice;  
 double result = listedMealPrice + tip + tax;  
 return result;

double in function definition returns double value

void returns nothing

If:

if(inputtedNum < 5) {  
 System.*out*.println("Enjoy the luck that a friend will bring you");  
} else {  
 System.*out*.println("Your shoe selection will make you happy today");  
}

loop:

while (isOnRepeat) {  
 System.*out*.println("Playing current song");  
 System.*out*.println("Would you like to take this song off of repeat? If so, answer yes");  
 String userInput = input.next();  
  
 if (userInput.equals("yes")) {  
 isOnRepeat = false;  
 }

Instance method vs Class method:

instance method can only operate on an instance created from the class.

Class method operates independent of the instance.

public class triangle {  
  
 static int *numOfSides* = 3;  
  
 double base;  
 double height;  
 double sideLenOne;  
 double sideLenTwo;  
 double sideLenThree;  
  
 public triangle(double base, double height, double sideLenOne, double sideLenTwo, double sideLenThree) {  
 this.base = base;  
 this.height = height;  
 this.sideLenOne = sideLenOne;  
 this.sideLenTwo = sideLenTwo;  
 this.sideLenThree = sideLenThree;  
 }  
  
 public double findArea() {  
 return (this.base \* this.height) / 2;  
 }  
}

this.<attribute> is the attribute of the instance and the = adds the parameter from input

numOfSides is a static variable which is common to the class.

Other variables are non-static variables which are attributes to the instance.

<classname>.<class variable> calls for class variable

<instancename>.<instance method> calls for instance method

String:

charAt():

<variable>.charAt(i) returns the char at index i of the variable

concatenating string in print:

System.*out*.println(studentFirstName + " " + studentLastName);