Python

| Python | Java |
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| print “Hello, world!” | …  System.out.println(“Hello, world!”); |
| myCount = 0  myString = str(myCount)  if myString == “0”: … | int myCount = 0;  String myString = String.valueOf(myCount);  if (myString.equals(“0”)) {…} |
| interacting classes  Only one constructor  class Employee() :  def \_init\_(self, employeeName,  taxDeductions = 1, maritalStatus = “single”):  self.employeeName = employeeName  self.taxDeductions = taxDeductions  self.maritalStatus = maritalStatus | public class Employee(  private String employeeName;  private int taxDeductions = 1;  private String maritalStatus = “single”;  public Employee(String EmployeeName){  this(EmployeeName, 1);  }  Public Empoyee(employeeName,  taxDeductions, maritalStatus){  this.employeeName = employeeName;  this.taxDeductions = taxDeductions;  this.maritalStatus = maritalStatus;  }  } |
| myFile = open (argFilename) | import java.io.\*;  … BufferedReader myFile =  new BufferedReader(  new FileReader(argFilename)); |
| if a > b :  a = b  b = c | if (a > b) {  a = b;  b = c;  } |
| abs(…) | Math.abs |

| def sleep\_in(weekday, vacation):  if not weekday or vacation:  return True  else:  return False |  |
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| def pos\_neg(a, b, negative):  if a \* b < 0 and not negative:  return True  if negative and (a < 0 and b < 0):  return True  else:  return False | def pos\_neg(a, b, negative):  if negative:  return (a < 0 and b < 0)  else:  return ((a < 0 and b > 0) or (a > 0 and b < 0)) |
| def not\_string(str):  if str[0:3] == 'not':  return str  else:  return "not " + str | def not\_string(str):  if len(str) >= 3 and str[:3] == "not":  return str  return "not " + str |
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