Program #7: Convert input file into formatted Semi Colon Separated file Keller Sedillo-Garrido

# **Problem Description:**

We have been given a file which contains names of filles in it. We are to program in three different languages that are able to parse the files and output the final result into an output file. The format in the output file will look like "FILENAME ';' Last Name ';' FirstName ';' Middle Name"

Programs:

Ruby:

#### Java:

# Python:

```
CS 471 - Prog Lang Structure > Programming #7 > 💠 convert.py
                   : No User Input
# Create/Open Write File
   writeFile = open('out', 'w')
14 # Read in input file
15 with open('ConvertCSVinput') as f:
         while True:
            c = f.readline()
            # Check if empty
            if not c: break
            # Write Line
            writeFile.write(c.strip() + " ; ")
            split = c.split(",")
            for i in range(len(split) - 1):
                                                             # Loop through tokens
                writeFile.write(split[i].capitalize()+ " ; ") # Write each token
             end = split[len(split) - 1].split(".")
                                                          # Split End by '.'
             writeFile.write(end[0].capitalize() + " ;\n") # Write End
         f.close()
   #Close Output File
39 writeFile.close()
```

### Output:

```
CS 471 - Prog Lang Structure > Programming #7 > C out
     acosta,abel,f.jpg ; Acosta ; Abel ; F ;
 1
     alberson, dean, clinton.jpg; Alberson; Dean; Clinton;
     alberson, dennis, frank.jpg; Alberson; Dennis; Frank;
     allen, Judith, kathleen.jpg; Allen; Judith; Kathleen;
     baird, josef, james.jpg ; Baird ; Josef ; James ;
     baker, Tina, marie.jpg ; Baker ; Tina ; Marie ;
     banegas,henry.jpg ; Banegas ; Henry ;
     barclay,john,a.jpg ; Barclay ; John ; A ;
     bean, lewis.jpg; Bean; Lewis;
     boykin, m., arthur.jpg; Boykin; M.; Arthur;
10
     cooper,shaun,hunter.jpg ; Cooper ; Shaun ; Hunter ;
11
     cyrs,thomas,earl.jpg ; Cyrs ; Thomas ; Earl ;
12
13
     dage,erik,l.jpg ; Dage ; Erik ; L ;
     davis, Janet, lynn.jpg ; Davis ; Janet ; Lynn ;
14
     acosta,abel,f.jpg ; Acosta ; Abel ; F ;
15
     alberson, dean, clinton.jpg; Alberson; Dean; Clinton;
16
     alberson, dennis, frank.jpg; Alberson; Dennis; Frank;
17
18
     allen, Judith, kathleen.jpg ; Allen ; Judith ; Kathleen ;
     baird,josef,james.jpg ; Baird ; Josef ; James ;
19
     baker,Tina,marie.jpg ; Baker ; Tina ; Marie ;
20
21
     banegas,henry.jpg ; Banegas ; Henry ;
     barclay, john, a.jpg ; Barclay ; John ; A ;
22
     bean,lewis.jpg ; Bean ; Lewis ;
23
24
     boykin,m.,arthur.jpg; Boykin; M.; Arthur;
     cooper,shaun,hunter.jpg ; Cooper ; Shaun ; Hunter ;
25
26
     cyrs,thomas,earl.jpg ; Cyrs ; Thomas ; Earl ;
     dage,erik,l.jpg ; Dage ; Erik ; L ;
27
     davis, Janet, lynn.jpg ; Davis ; Janet ; Lynn ;
28
29
```

#### Conclusion:

We see that all three languages are able to accomplish the task at hand. However, we see that it's much easier to program in Ruby and Python than C. Personally, I think this is the case because C has a more rigid string system at the cost of poor writability.