

**Simple Java Assignment**

The following assignment will help you prepare for the Cook Systems Java BootCamp and provide a means for your recruiter to assess your readiness for the training. It is critical for you to have familiarity with the Eclipse editor and basic Java concepts before arriving for your training. You may seek assistance from others (not your recruiter) while you are learning but YOU MUST BE ABLE TO DEMONSTRATE YOUR KNOWLEDGE to us, so make sure whatever assistance you receive does not prevent you from mastering and internalizing these skills for yourself (don’t have someone else do it for you).

After you have completed the assignment or as much of it as you can complete, follow the instructions to export it and email it to your Cook Systems BootCamp recruiter. Continue to review or repeat the assignment until you are confident you are prepared for the most intense and rewarding training experience anywhere. Good luck!

**Assignment:**

1. Using Eclipse Juno version, create a Java project and implement requirements 2 through 5.

Follow the article in the following link to download and configure Eclipse on your PC:

<http://www.vogella.com/articles/Eclipse/article.html>

2. Create an Employee class with following attributes / variables:

name

age

department

3. Create a class called Department which will contain a list of employees.

a) Department class will have a method which will return its employees ordered by age.

b) The value of department can be only one of the following values:

“Accounting”

“Marketing”

“Human Resources”

“Information Systems”

4. Create a static method in a separate class called PrimeAgeChecker to check if an employee’s age is prime number or not. This method should be able to accept an employee object as an argument to do the check.

5. Create a class called Company which will contain a list of departments. Create a main method in this class to load the following departments and corresponding employee information into the company:

|  |  |  |
| --- | --- | --- |
| **Department** | **Name** | **Age** |
| Accounting | Counting Guru | 55 |
| Accounting | Counting Pro | 45 |
| Accounting | Counting Savvy | 40 |
| Accounting | Counting Novice | 25 |
| Marketing | Sales Guru | 50 |
| Marketing | Sales Pro | 48 |
| Marketing | Sales Savvy | 38 |
| Human Resources | Hiring Guru | 58 |
| Human Resources | Hiring Pro | 47 |
| Information Systems | Hacking Pro | 46 |
| Information Systems | Hacking Guru | 51 |
| Information Systems | Hacking Savvy | 38 |
| Information Systems | Hacking Novice | 23 |

Print out departments, employee names, ages and if age is prime number for each employee in the company using the method in PrimeAgeChecker class. When you print out Accounting and Information Systems departments, make sure they are printed in ascending order by employee age using the method you created in step 2a.

6. Export the project in zip format by following instructions in section 9.1 in the article mentioned in step 1. Email the zip file to your Cook Systems recruiter for evaluation.