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Skill 17.1 Exercise 1

Consider the elements on the periodic table.

(a) Indicate the name of a data type that could be used to represent each element

(b) Indicate the types of data that are required to represent each element

Skill 17.2 Exercise 1

The Elements class represents different elements on the periodic table. Write the elements class below.

Skill 17.3 Exercise 1

The ElementMaker class creates elements by instantiating the Elements class above. Write code that could be used to create the elements Nitrogen and Oxygen.

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Skill 17.4 Exercise 2

Modify the Element class above to accept parameters and assign the instance variables defined above to the their values.

Skill 17.4 Exercise 2

A student executes the following command. Write code that could be used to create Element objects for the arguments helium and neon. Call these Element objects, element1 and element2

```
java ElementMaker helium neon
```

```
public class ElementMaker{  
  
    public static void main(String args[]){  
  
  
  
  
  
  
    }  
}
```

Skill 17.4 Exercise 3

What is printed?

```
public class StudentMaker{  
  
public static void main(String args[]){  
  
  
Student student3 = new Student("Marvin",  
12);  
  
    }  
}
```

```
public class Student{  
  
public String name;  
public int gradeLevel;  
  
public Student(String n, int gl){  
  
System.out.println("My name is " +  
n + "I am in " + gl + "th grade");  
}
```

AP Computer Science A
Ticket Out the Door
Set 17: Objects and Classes

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