

```
// Java
// Inheritance Tracing Worksheet #2
```

Name -
Period -

```
// Trace the following code using the applicable Person2, Student2 & APStudent2 classes.
// Print any output that is produced to the right of the line of code that produces it.
// Explain any compile or run-time errors next to the applicable line of code and then
// ignore the error and continue tracing the program.
```

```
public class APStudent2Test
{
```

```
    public static void main(String[] args)
    {
        APStudent2 apJoe1 = new APStudent2();
        System.out.println(apJoe1);

        APStudent2 apJoe2 = new APStudent2(3);
        System.out.println(apJoe2);

        APStudent2 apJoe3 = new APStudent2(10, 5);
        System.out.println(apJoe3);
    }
}
```

```
public class Person2
```

```
{
    private int myAge;

    public Person2()
    {
        myAge = 0;
        System.out.println("Person2 was constructed");
    }

    public String toString()
    {
        return " myAge = " + myAge;
    }
}
```



```
public class Student2 extends Person2
```

```
{
    private int myGrade;

    public Student2()
    {
        myGrade = 9;
        System.out.println("Student2 was constructed");
    }

    public Student2(int grade)
    {
        myGrade = grade;
        System.out.println("Student2 was constructed");
    }

    public String toString()
    {
        return super.toString() + " myGrade = " + myGrade;
    }
}
```

Trace the values of the properties here:

apJoe1: myAge myGrade myAPExamScore

apJoe2: myAge myGrade myAPExamScore

apJoe3: myAge myGrade myAPExamScore

show
output here ↓



```
public class APStudent2 extends Student2
```

```
{
    private int myAPExamScore;

    public APStudent2()
    {
        super();
        myAPExamScore = 3;
        System.out.println("APStudent2 was constructed");
    }

    public APStudent2(int examScore)
    {
        myAPExamScore = examScore;
    }

    public APStudent2(int grade, int examScore)
    {
        super(grade);
        myAPExamScore = examScore;
    }

    public String toString()
    {
        return super.toString() + " myAPExamScore = " + myAPExamScore;
    }
}
```