

Answer on Question #46190, Programming, Java | JSP | JSF

Create class Grade

```
public class Grade {  
  
    private char mark;  
    private int hours;  
  
    public Grade() {  
    }  
  
    public Grade(char mark, int hours) {  
        this.mark = mark;  
        this.hours = hours;  
    }  
  
    public char getMark() {  
        return mark;  
    }  
  
    public void setMark(char mark) {  
        this.mark = mark;  
    }  
  
    public int getHours() {  
        return hours;  
    }  
  
    public void setHours(int hours) {  
        this.hours = hours;  
    }  
}
```

Create class Student

```
import java.util.ArrayList;  
import java.util.List;  
  
public class Student {  
  
    List<Grade> list;  
  
    public Student() {  
        list = new ArrayList();  
    }  
  
    public void addGrade(Grade g) {  
        list.add(g);  
    }  
}
```

```

public double calculateGrade() {
    int sumMarks = 0;
    int sumHours = 0;
    for (Grade g : list) {
        sumHours += g.getHours();
        switch (g.getMark()) {
            case 'a': {
                sumMarks += 5 * g.getHours();
                break;
            }
            case 'b': {
                sumMarks += 4 * g.getHours();
                break;
            }
            case 'c': {
                sumMarks += 3 * g.getHours();
                break;
            }
            case 'd': {
                sumMarks += 2 * g.getHours();
                break;
            }
            case 'e': {
                sumMarks += 1 * g.getHours();
                break;
            }
        }
    }
    return sumMarks/(double)sumHours;
}

public List<Grade> getList() {
    return list;
}
}

```

Then just iterate ArrayList on jsp page