オブジェクト指向プログラミング No.5

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ソースコード

Seiseki.java

```
public class Seiseki{
        private String course = "特別研究一";
         private String category = "専門科目";
         private int credit = 6;
         private int grade = 5;
         private static String[] title1 = new String[5];
         private static String[] title2 = new String[5];
         private static String[] title3 = new String[5];
         private static int i1 = 0;
         private static int i2 = 0;
         private static int i3 = 0;
```

```
public Seiseki(){}
public Seiseki(String course){
         this.course = course;
}
public Seiseki(String course, String category){
         this(course);
         this.category = category;
}
public Seiseki(String course, String category, int credit){
         this(course, category);
         if (credit != 1 && credit != 2 && credit != 4){
                  credit = 2;
```

```
}
          this.credit = credit;
}
public\ Seiseki(String\ course,\ String\ category,\ int\ credit,\ int\ grade)\{
          this(course, category, credit);
          if ( grade > 5 \mid \mid grade < 0){
                    grade = 0;
          }
          this.grade = grade;
}
public String GetCourse(){
          return course;
```

```
public String GetCategory(){
         return category;
}
public int GetCredit(){
         return credit;
}
public int GetGrade(){
         return grade;
}
public String GetGradeName(){
         String str = "";
         switch(grade)\{
                  case 5:
```

```
str = "秀";
        break;
case 4:
        str = "優";
        break;
case 3:
        str = "良";
        break;
case 2:
        str = "可";
        break;
case 1:
case 0:
        str = "不可";
        break;
```

}

```
return str;
}
public void putTitle(){
        switch(category)\{
                 case "専門科目":
                         title1[i1] = course;
                         i1++;
                         break;
                 case "基礎数学科目":
                         title2[i2] = course;
                         i2++;
                         break;
                 case "教養科目":
                         title3[i3] = course;
                         i3++;
```

```
break;
         }
}
public static void printTitle(){
System.out.println("-----專門科目-----");
for(int i = 0; i < i1; i++)
         System.out.println(title1[i]);
System.out.println("-----基礎数学-----");
for(int i = 0; i < i2; i++)
         System.out.println(title2[i]);
System.out.println("-----教養科目-----");
for(int i = 0; i < i3; i++)
         System.out.println(title3[i]);
```

```
}
        public void printSeiseki(){
                System.out.println("单位取得: " + GetGradeName());
        }
        public String toString(){
                return String.format("科目名:%s, 種類:%s, 单位:%d, 成
績:%d", course, category, credit, grade);
        }
```

SeisekiTester.java

```
class SeisekiTester{
    public static void main(String[] args){
        Seiseki Tokyo = new Seiseki("オブジェクト指向プログラミン
```

```
グ", "専門科目", 2, 5);
                Seiseki Metropolitan = new Seiseki("線形代数", "基礎数学科
目", 3, 2);
                Seiseki University = new Seiseki("実践英語", "教養科目", 4,
7);
                Seiseki hun = new Seiseki("実践英語 2", "教養科目", 5, 6);
                String s = Tokyo.toString();
                System.out.println(s);
                String l = Metropolitan.toString();
                System.out.println(l);
                String m = University.toString();
                System.out.println(m);
                String k = hun.toString();
                System.out.println(k);
                Tokyo.putTitle();
```

```
Metropolitan.putTitle();

University.putTitle();

hun.putTitle();

hun.printTitle();
```

実行結果

```
gotouwataru$MBP:No.5 gotouwataru$ java SeisekiTester
```

科目名:オブジェクト指向プログラミング, 種類:専門科目, 単位:2, 成績:5

科目名:線形代数, 種類:基礎数学科目, 単位:2, 成績:2

科目名:実践英語,種類:教養科目,単位:4,成績:0

科目名:実践英語 2, 種類:教養科目, 単位:4, 成績:0

オブジェクト指向プログラミング
基礎数学
線形代数
教養科目
実践英語
実践英語 2