

HeadOfHousehold.java

```

1 package calculation;
2
3 public class HeadOfHousehold implements IncomeTaxCategory {
4     private final int POOR_LIMIT = 30_390;
5     private final double POOR_PERCENT = 0.05_35;
6     private final int LOW_LIMIT = 90_000;
7     private final double LOW_ADDED = 1_625.87;
8     private final double LOW_PERCENT = 0.07_05;
9     private final int MIDDLE_LIMIT = 122_110;
10    private final double MIDDLE_ADDED = 5_828.38;
11    private final double MIDDLE_PERCENT = 0.07_05;
12    private final int HIGH_LIMIT = 203_390;
13    private final double HIGH_ADDED = 8_092.13;
14    private final double HIGH_PERCENT = 0.07_85;
15    private final double WEALTHY_ADDED = 14_472.61;
16    private final double WEALTHY_PERCENT = 0.09_85;
17
18    public double calculateIncomeTax(double income) {
19        if (income < POOR_LIMIT) {
20            return POOR_PERCENT * income;
21        } else if (income < LOW_LIMIT) {
22            return LOW_ADDED + LOW_PERCENT * (income - POOR_LIMIT);
23        } else if (income < MIDDLE_LIMIT) {
24            return MIDDLE_ADDED + MIDDLE_PERCENT * (income - LOW_LIMIT);
25        } else if (income < HIGH_LIMIT) {
26            return HIGH_ADDED + HIGH_PERCENT * (income - MIDDLE_LIMIT);
27        } else {
28            return WEALTHY_ADDED + WEALTHY_PERCENT * (income - HIGH_LIMIT);
29        }
30    }
31
32    public String toString() {
33        return "Head of Household";
34    }
35 }

```