

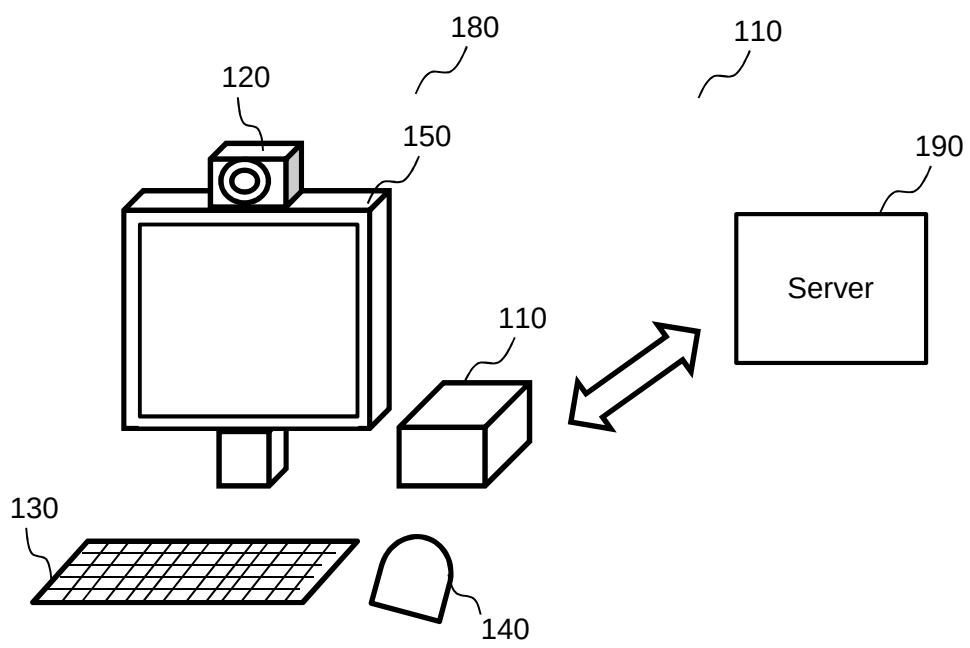


Figure 1

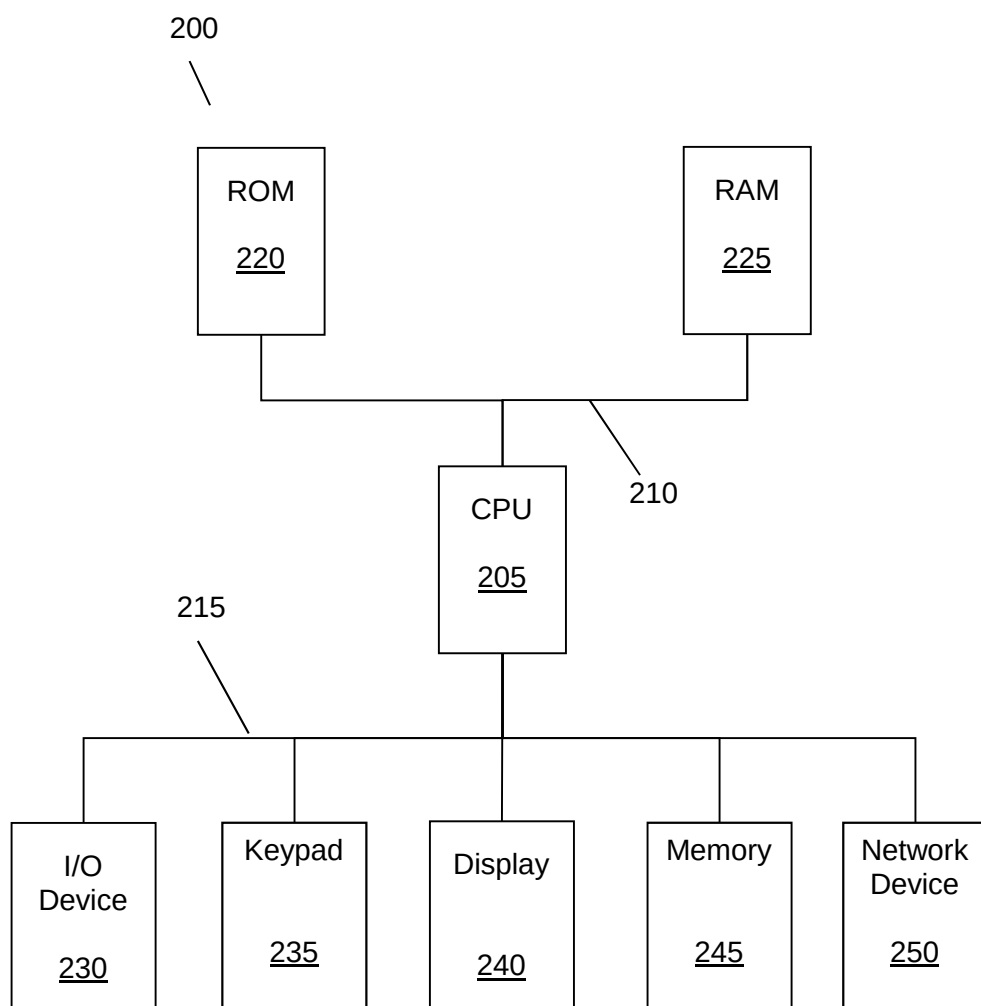


Figure 2

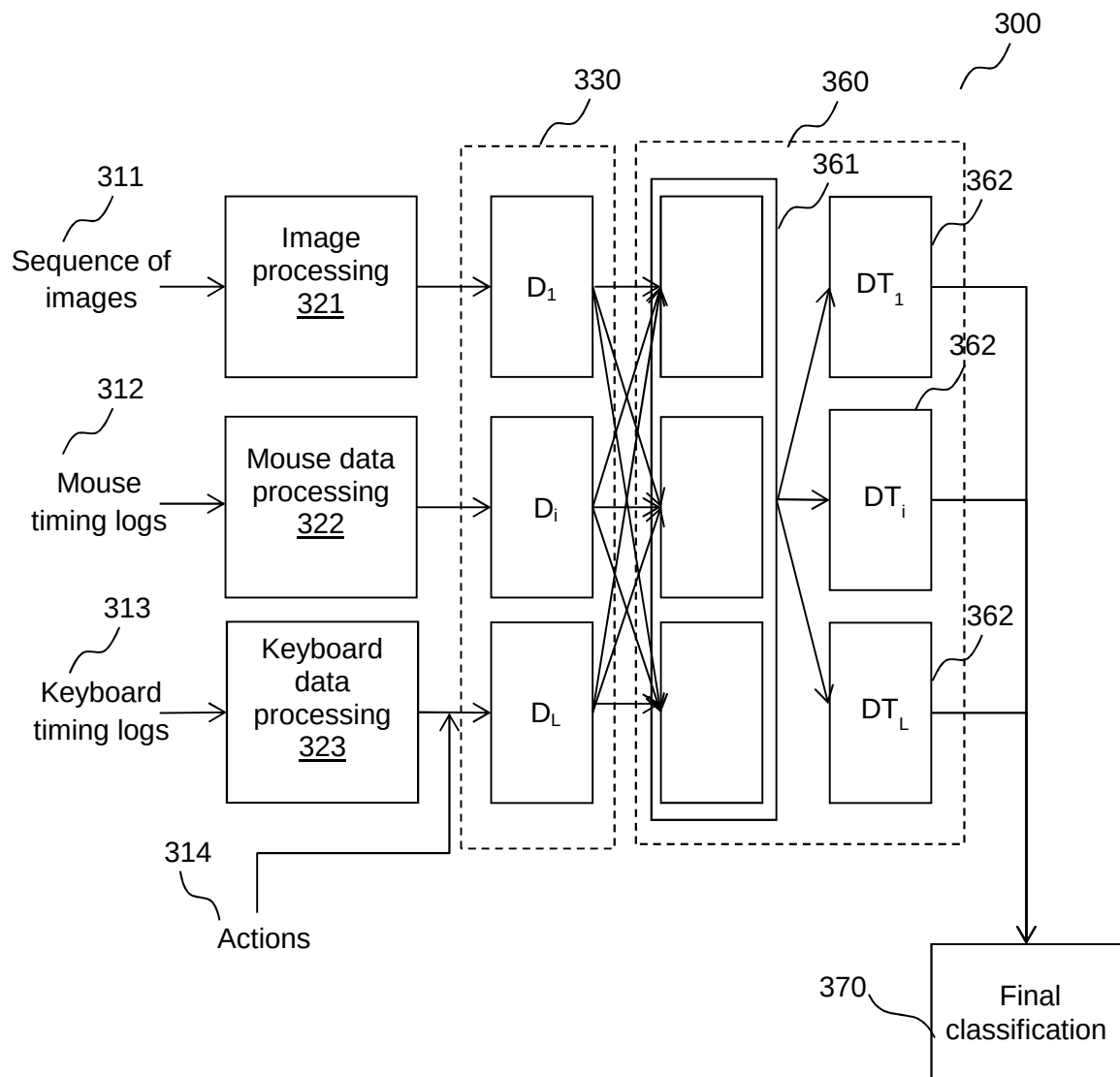


Figure 3

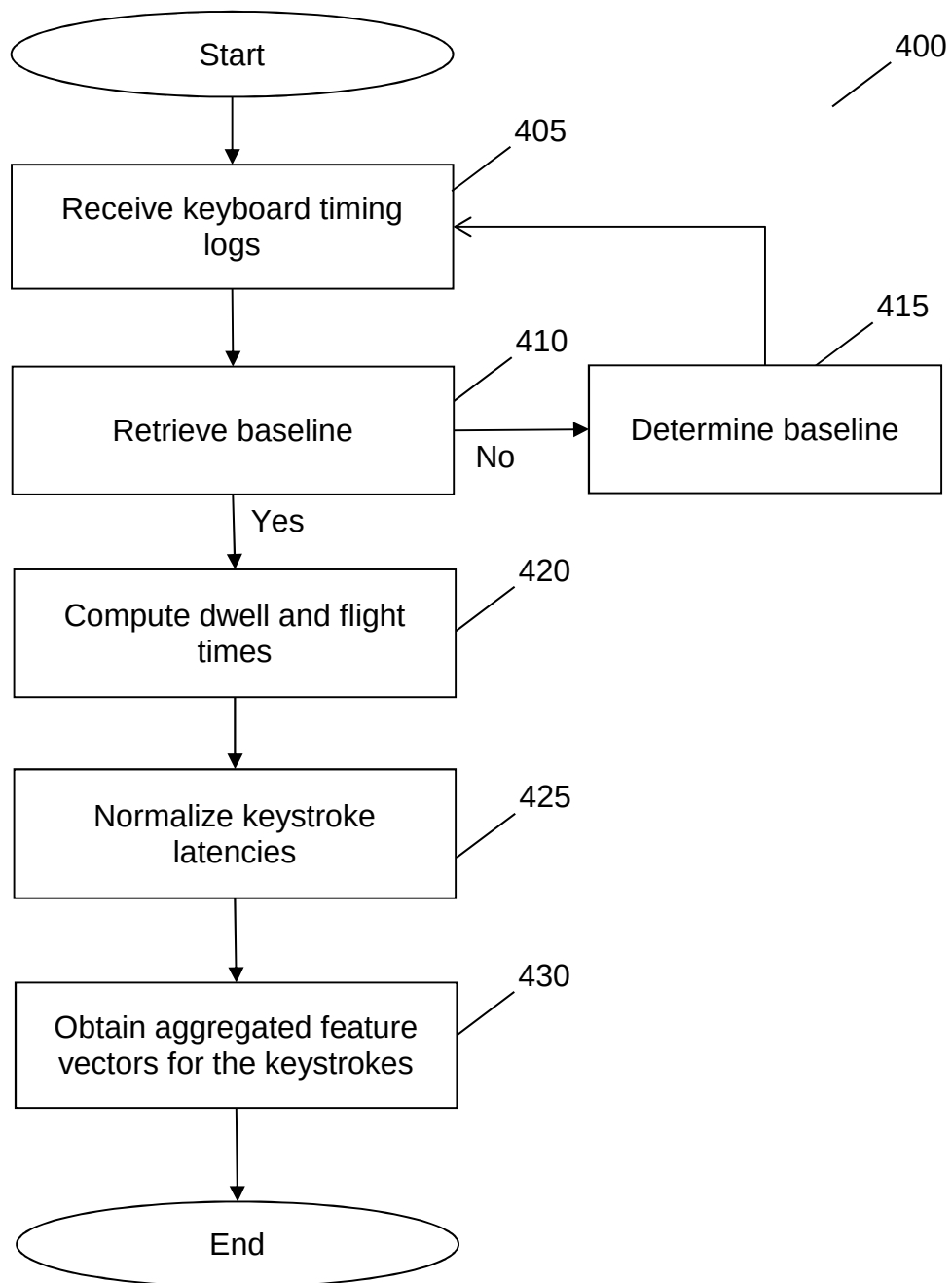


Figure 4

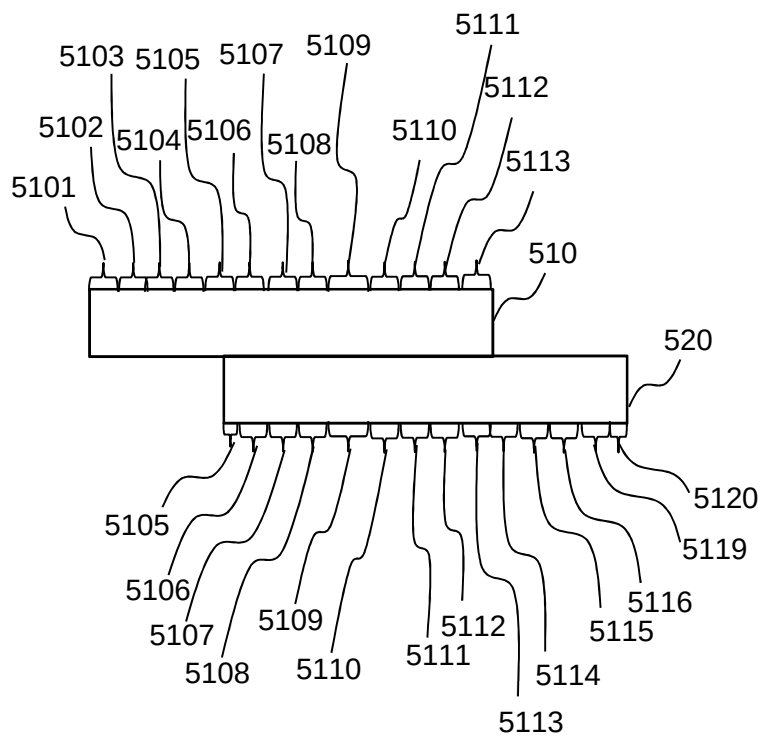


Figure 5

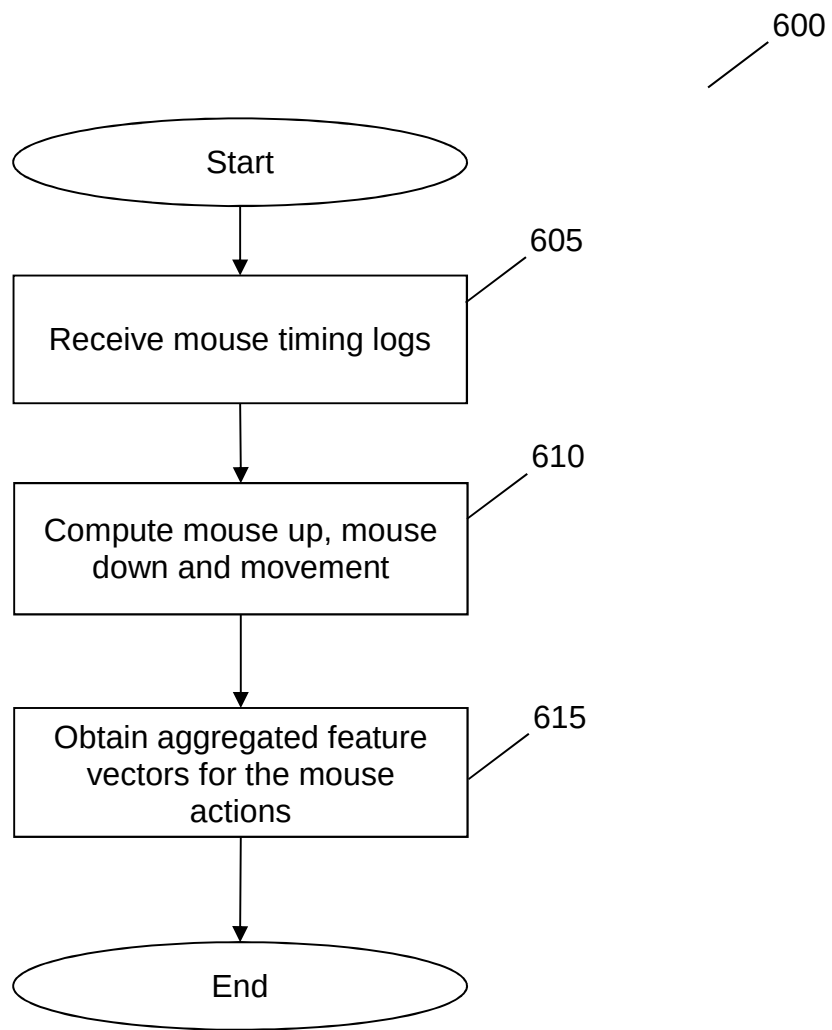


Figure 6

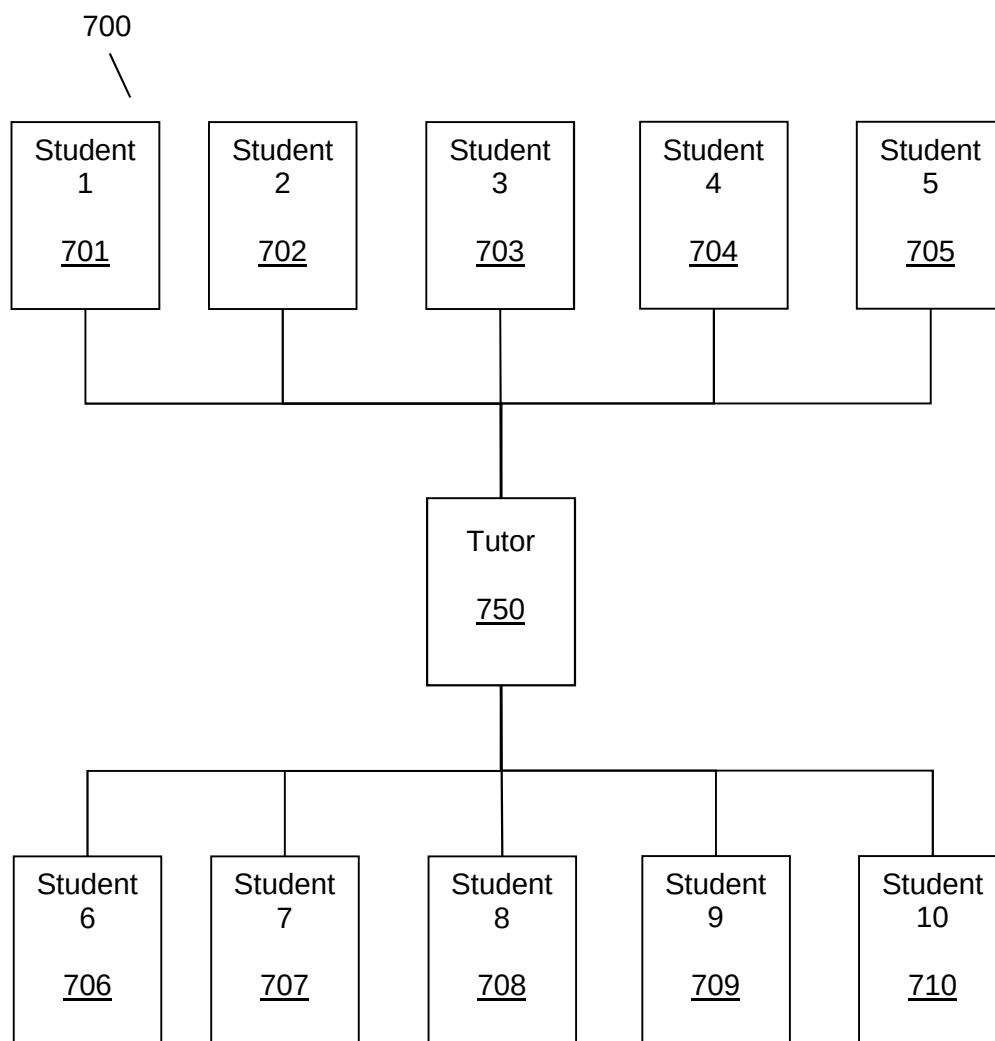


Figure 7

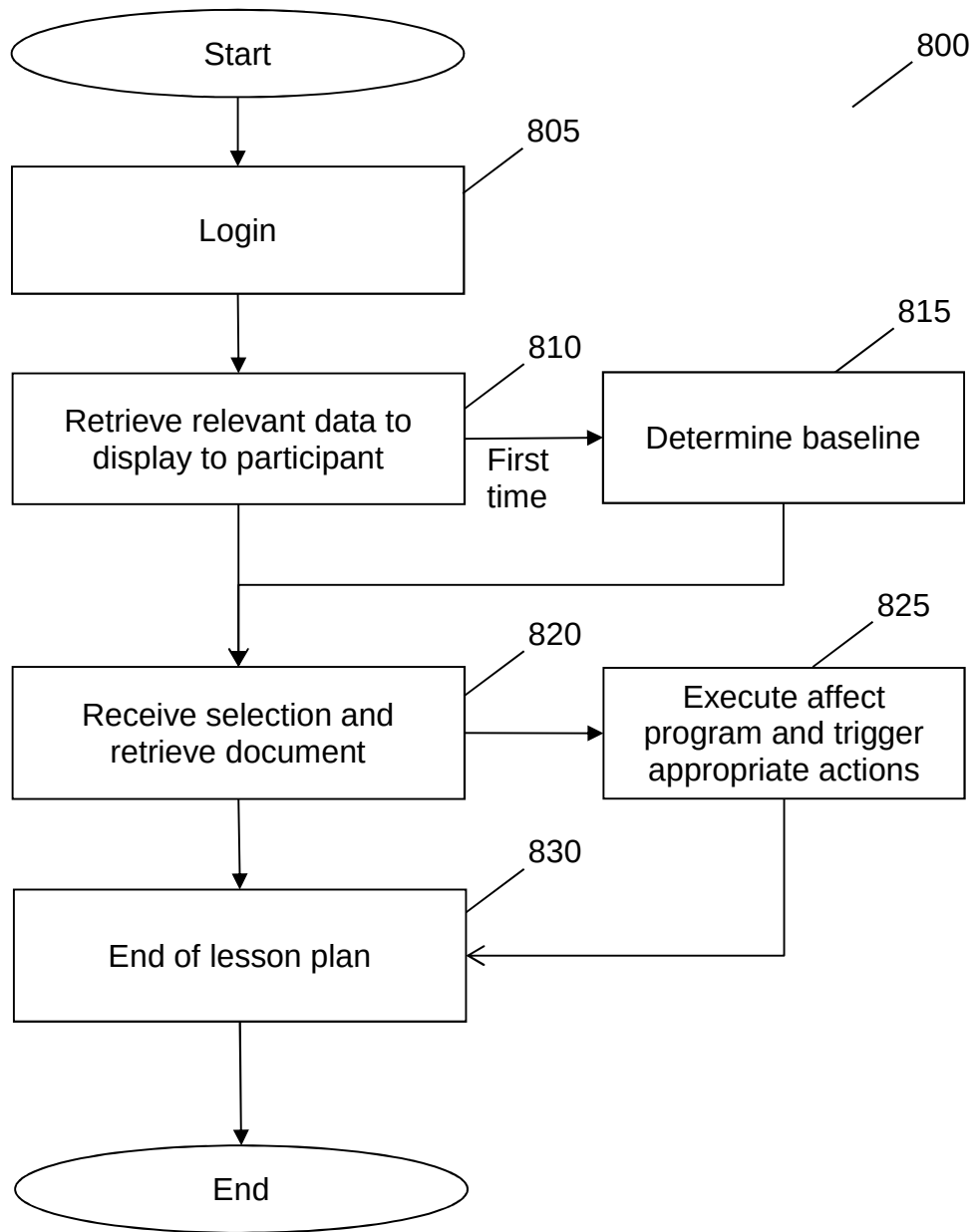


Figure 8

900

Affective Java Tutoring System
student01

HOME LESSONS PROGRESS SETTINGS LOGOUT

Data Types and Variables

Data Types

Variables

Literals

Constants

Exercise

Select an exercise:

Exercise 1

Completed

The program below calculates the income tax payable by a tax payer based on the number of dependents that he or she has. Complete the code to declare appropriate constants and variables

```

1 class DeclareVarinit {
2     /** declare constant DEDUCTION to be 2000
3     static final double DEDUCTION=2000;
4     /** declare constant TAX_RATE to be 0.2
5     static final float TAX_RATE=0.2f;
6     public static void main(String[] args) {
7         // variables
8         double incomeTax, taxableIncome, grossSalary;
9         /** declare numOfChildren and initialize to 2
10        int numChild = 2;
11        /** declare numOfParents and initialize to 2
12        int numParents=2;
13        int numOfDependents;
14
15        // assignment statements
16        grossSalary = 100000;
17        /** set numOfDependents to be the sum of numOfChildren and numOfParents
18        numOfDependents=numChild+numParents;
19        taxableIncome = grossSalary - numOfDependents*DEDUCTION;
20        incomeTax = taxableIncome * TAX_RATE;
21        System.out.format("The income tax is $: %f", incomeTax);
22    }
23 }

```

Input

940

950

Submit code

Check answer

Save attempt

Get hints

Output

930

Figure 9