

## src/Problem1.java

```
1  /*
2  Name: Hunter Poole
3  Date: 3/5/25
4  HW #: 6
5  Problem #: 1
6  Source Code: Problem1.java
7  Action: Provides proof that a penny doubled every day for
8          thirty days would make you a millionaire.
9  */
10
11 public class Problem1
12 {
13     public static void main(String[] args)
14     {
15         double Balance = 0.01;
16
17         System.out.printf("%s %10s %n%s %13s %n%d %7s%.2f%n", "Day", "Amount",
18             "----", "-----", 1, "$", Balance);
19
20         for (int i = 2; i <= 30; i++)
21         {
22             Balance = Balance * 2.0;
23
24             if (i < 10)
25             {
26                 System.out.printf("%d %7s%.2f %n", i, "$", Balance);
27             }
28             else
29             {
30                 System.out.printf("%d %6s%.2f %n", i, "$", Balance);
31             }
32         }
33     }
34 }
35
36
37 /*
38 Day      Amount
39 ----      -----
40 1         $0.01
41 2         $0.02
42 3         $0.04
43 4         $0.08
44 5         $0.16
45 6         $0.32
46 7         $0.64
47 8         $1.28
```

48	9	\$2.56
49	10	\$5.12
50	11	\$10.24
51	12	\$20.48
52	13	\$40.96
53	14	\$81.92
54	15	\$163.84
55	16	\$327.68
56	17	\$655.36
57	18	\$1310.72
58	19	\$2621.44
59	20	\$5242.88
60	21	\$10485.76
61	22	\$20971.52
62	23	\$41943.04
63	24	\$83886.08
64	25	\$167772.16
65	26	\$335544.32
66	27	\$671088.64
67	28	\$1342177.28
68	29	\$2684354.56
69	30	\$5368709.12
70	*/	
71		