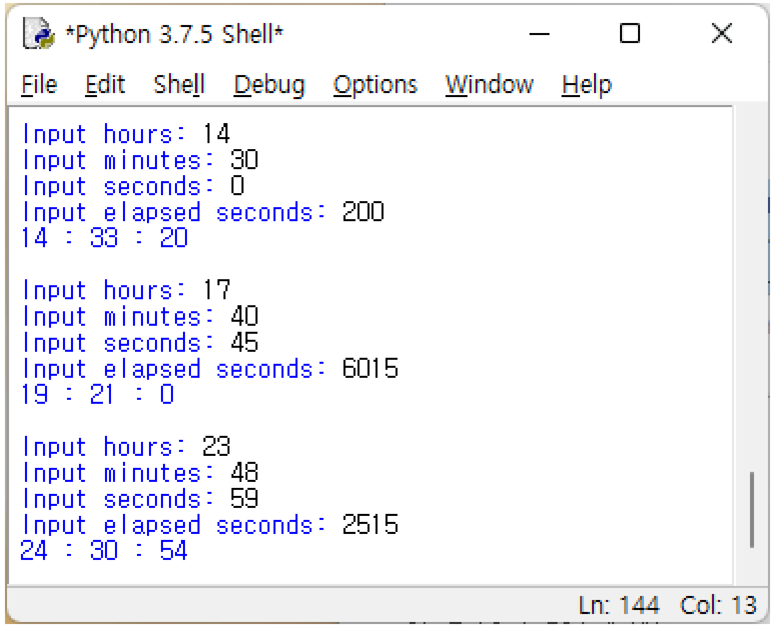
CPB221 Exercise ch03-2

3-3. Time Operation 2

- Get the base time values (hours, minutes, and seconds) and elapsed seconds.
- Add elapsed seconds to the base time.
- The results of minutes and seconds cannot exceed 60, but hours can exceed 24.
- (Assume that inputs of base time values are greater than 0 and less than 60, and elapsed seconds is greater than 0)

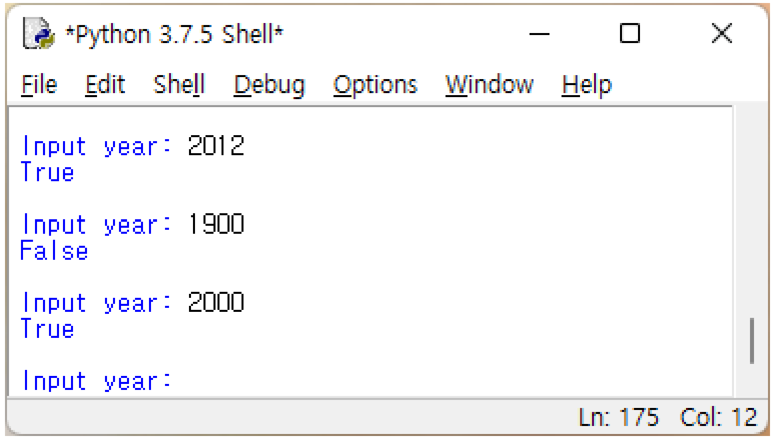


```
Input hours: 14
Input minutes: 30
Input seconds: 0
Input elapsed seconds: 200
14 : 33 : 20

Input hours: 17
Input minutes: 40
Input seconds: 45
Input elapsed seconds: 6015
19 : 21 : 0

Input hours: 23
Input minutes: 48
Input seconds: 59
Input elapsed seconds: 2515
24 : 30 : 54
```

CPB221 Exercise ch03-2

3-4. Leap Year

- A leap year is when the year is a multiple of 4 but not a multiple of 100 or a multiple of 400.
- For example, 2012 is a leap year because it is a multiple of 4 and not a multiple of 100. The year 1900 is not a leap year because it is a multiple of 100 and not a multiple of 400. However, the year 2000 is a leap year because it is a multiple of 400.
- Write a program that takes a year as input and outputs True if it is a leap year or False otherwise.

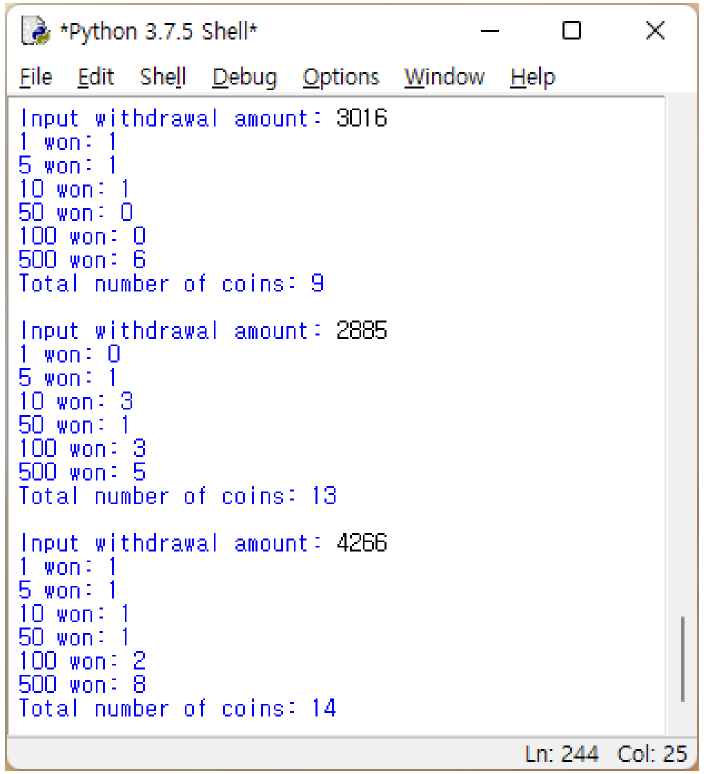


```
Input year: 2012
True

Input year: 1900
False

Input year: 2000
True

Input year:
```

CPB221 Exercise ch03-2

3-5. Coinholic

- The bank has coins in denominations of 1, 5, 10, 50, 100, and 500 won.
- When a customer wants to take all the amount to be withdrawn in coins, the banker tries to give it using the minimum number of coins.
- In this case, print the number of each coin needed and the total number of coins.



```
Input withdrawal amount: 3016
1 won: 1
5 won: 1
10 won: 1
50 won: 0
100 won: 0
500 won: 6
Total number of coins: 9

Input withdrawal amount: 2885
1 won: 0
5 won: 1
10 won: 3
50 won: 1
100 won: 3
500 won: 5
Total number of coins: 13

Input withdrawal amount: 4266
1 won: 1
5 won: 1
10 won: 1
50 won: 1
100 won: 2
500 won: 8
Total number of coins: 14
```