**Exercise 3.5 KEY**

(Objective 3.8)

**1. Write a program to read a body temperature in F. Display a message “Fever!” if the body temperature is greater than 100.4F; Otherwise, display “No fever”.**

1. System Analysis: What is(are) the input(s) and output(s)?

Input: temperature(float)

Output: a message Fever or No Fever

1. Assume your manager asks you to complete this program by using a TWO way decision selection statement. What should be the condition? How to represent it using a Boolean expression (may use logical operator) in Python?

Condition in English:

Check if the body temperature is greater than 100.4F

Condition in Python:

temperature>100.4

1. System Design: List the steps to get output(s) from input(s)

Step 1: get input for temperature

If temperature>100.4:

Step 2: print Fever

Else

Step 3: print No fever

1. Write your program.

temperature=float(input(‘Enter a temperature’))

if temperature>100.4:

print(‘Fever’)

else:

print(‘No Fever’)