of the first storage compartment, a door opening/closing detection unit configured to detect opening and closing of the door, a temperature detection unit configured to detect a temperature in the first storage compartment, a temperature control unit configured to control the temperature in the first storage compartment, and a controller configured to control the temperature control unit based on the temperature detected by the temperature detection unit. When opening and closing of the door is detected during a normal temperature control that maintains the compartment temperature of the first storage compartment at a predetermined normal set temperature, the controller executes a special temperature control that shifts the compartment temperature of the first storage compartment to a first set temperature being higher than the normal set temperature and maintains the compartment temperature at the first set temperature for a first time period, and then shifts the compartment temperature to a second set temperature being lower than the normal set temperature and maintains the compartment temperature at the second set temperature for a second time period. When opening and closing of the door is detected during the special temperature control, the controller restarts the special temperature control from a beginning. When opening and closing of the door is detected during the special temperature control while the compartment temperature of the first storage compartment is maintained at the first set temperature, the controller continues the special temperature control without restarting the special temperature control from a beginning.

A refrigerator of another embodiment of the present disclosure includes a heat insulating box body having therein a plurality of storage compartments including a first storage compartment whose temperature is configured to set at a soft-freezing temperature zone, a door that opens and closes an opening provided at a front side of the first storage compartment, a door opening/closing detection unit configured to detect opening and closing of the door, a temperature detection unit configured to detect a temperature in the first storage compartment, a temperature control unit configured to control the temperature in the first storage compartment, and a controller configured to control the temperature control unit based on a temperature detected by the temperature detection unit. When opening and closing of the door is detected during a normal temperature control that maintains a compartment temperature of the first storage compartment at a predetermined normal set temperature, the controller executes a special temperature control that shifts the

compartment temperature of the first storage compartment to a first set temperature being higher than the normal set temperature and maintains the compartment temperature at the first set temperature for a first time period, and then shifts the compartment temperature to a second set temperature being lower than the normal set temperature and maintains the compartment temperature at the second set temperature for a second time period. In a transition from the first set temperature to the second set temperature during the special temperature control, the controller takes a longer time to shift from the first set temperature to the normal set temperature than to shift from the normal set temperature to the second set temperature.

A refrigerator of another embodiment of the present disclosure includes a heat insulating box body having therein a plurality of storage compartments including a first storage compartment whose temperature is set at a soft-freezing temperature zone, a door that opens and closes an opening provided at a front side of the first storage compartment, a door opening/closing detection unit configured to detect opening and closing of the door, a temperature detection unit configured to detect a temperature in the first storage compartment, a temperature control unit configured to control the temperature in the first storage compartment, and a controller configured to control the temperature control unit based on a temperature detected by the temperature detection unit. Based on opening and closing of the door, the controller executes a normal temperature control that maintains a compartment temperature of the first storage compartment at a predetermined normal set temperature or a special temperature control that shifts the compartment temperature of the first storage compartment to a first set temperature being higher than the normal set temperature and maintains the compartment temperature at the first set temperature for a first time period, and then shifts the compartment temperature to a second set temperature being lower than the normal set temperature and maintains the compartment temperature at the second set temperature for a second time period. In a transition from the first set temperature to the second set temperature during the special temperature control, the controller takes a longer time to shift from the first set temperature to the normal set temperature than to shift from the normal set temperature to the second set temperature. The plurality of storage compartments include a refrigerator compartment and a vegetable compartment whose compartment temperatures are

set at a refrigerator temperature zone, and the refrigerator compartment is arranged above the first storage compartment and the vegetable compartment is arranged below the first storage compartment.

A refrigerator of another embodiment of the present disclosure includes a heat insulating box body having therein a plurality of storage compartments including a first storage compartment whose temperature is set at a soft-freezing temperature zone, a door that opens and closes an opening provided at a front side of the first storage compartment, a door opening/closing detection unit configured to detect opening and closing of the door, a temperature detection unit configured to detect a temperature in the first storage compartment, a temperature control unit configured to control the temperature in the first storage compartment, and a controller configured to control the temperature control unit based on a temperature detected by the temperature detection unit. Based on opening and closing of the door, the controller executes a normal temperature control that maintains a compartment temperature of the first storage compartment at a predetermined normal set temperature or a special temperature control that shifts the compartment temperature of the first storage compartment to a first set temperature being higher than the normal set temperature and maintains the compartment temperature at the first set temperature for a first time period, and then shifts the compartment temperature to a second set temperature being lower than the normal set temperature and maintains the compartment temperature at the second set temperature for a second time period. The plurality of storage compartments include a refrigerator compartment and a vegetable compartment whose compartment temperatures are set at a refrigerator temperature zone, and the refrigerator compartment is arranged above the first storage compartment and the vegetable compartment is arranged below the first storage compartment.

Advantageous Effects of Invention

[0008]

According to the refrigerator of one embodiment of the present disclosure, when opening and closing of the door is detected during the normal temperature control, which maintains the compartment temperature of the first storage compartment, whose temperature can be set at the soft-freezing temperature zone, at a predetermined normal set temperature, the special temperature control is executed to maintain the compartment temperature of the first storage compartment at the first set

temperature, which is lower than the normal temperature, for the first time period, and then maintain the compartment temperature at the second set temperature, which is lower than the normal set temperature, for the second time period. Consequently, even when a food is placed in the first storage compartment and the door is closed, the food can be frozen after being brought into the