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import 'dart:io';

void main() {
  bool lightsOn = false;
  int thermostatTemp = 20;
  bool securitySystemArmed = false;

  while (true) {
    print("\nSmart Home Automation Menu:");
    print("1. Turn lights on/off");
    print("2. Set thermostat temperature");
    print("3. Arm/disarm security system");
    print("4. View system status");
    print("5. Exit");
    stdout.write("Choose an option (1-5): ");

    String? input = stdin.readLineSync();
    if (input == '5') {
      print("Exiting...");
      break;
    }

    switch (input) {
      case '1':
        lightsOn = !lightsOn;
        print(lightsOn ? "Lights are ON" : "Lights are OFF");
        break;
      case '2':
        stdout.write("Set temperature (15-30°C): ");
        String? tempInput = stdin.readLineSync();
        int? temp = int.tryParse(tempInput!);
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    if (temp != null && temp >= 15 && temp <= 30) {
        thermostatTemp = temp;
        print("Thermostat set to $thermostatTemp°C");
    }
    else {
        print("Invalid temperature! Please enter a value between 15 and 30.");
    }
    break;
case '3':
    securitySystemArmed = !securitySystemArmed;
    print(securitySystemArmed ? "Security system ARMED" : "Security system
DISARMED");
    break;
case '4':
    print("\nSystem Status:");
    print("Lights: ${lightsOn ? 'ON' : 'OFF'}");
    print("Thermostat: $thermostatTemp°C");
    if (thermostatTemp % 3 == 0 && thermostatTemp % 5 == 0) {
        print("Perfect Day");
    }
    else if (thermostatTemp % 3 == 0) {
        print("Cool Day");
    }
    else if (thermostatTemp % 5 == 0) {
        print("Warm Day");
    }
    print("Security System: ${securitySystemArmed ? 'ARMED' : 'DISARMED'}");
    break;
default:
    print("Invalid option! Please choose between 1-5.");
}
{
{
{

```