

```
#include <stdio.h>
```

```
#include <stdbool.h>
```

```
bool isDoorLocked = false; // Variable to track the status of the door lock
```

```
void lockDoor() {
```

```
    isDoorLocked = true;
```

```
    printf("Door locked.\n");
```

```
}
```

```
void unlockDoor() {
```

```
    isDoorLocked = false;
```

```
    printf("Door unlocked.\n");
```

```
}
```

```
int main() {
```

```
    int choice;
```

```
    do {
```

```
        printf("Electric Door Lock System\n");
```

```
        printf("1. Lock Door\n");
```

```
        printf("2. Unlock Door\n");
```

```
        printf("3. Exit\n");
```

```
        printf("Enter your choice: ");
```

```
        scanf("%d", &choice);
```

```
        switch(choice) {
```

```
            case 1:
```

```
                lockDoor();
```

```
                break;
```

```
            case 2:
```

```
        unlockDoor();

        break;
    case 3:
        printf("Exiting program.\n");
        break;
    default:
        printf("Invalid choice. Please try again.\n");
    }
} while (choice != 3);

return 0;
}
```