PASSWORD DOOR LOCK SYSTEM code

```
#include <Servo.h>
// Password configuration
const String correctPassword = "1234";
String enteredPassword = "";
// Initialize servo
Servo lockServo;
const int servoPin = 11;
// Buzzer pin
const int buzzerPin = 10;
void setup() {
 // Set up servo
 lockServo.attach(servoPin);
 lockServo.write(0); // Start with the door locked
 // Set up buzzer
 pinMode(buzzerPin, OUTPUT);
 // Start Serial Monitor
 Serial.begin(9600);
 Serial.println("Enter Password:");
}
void loop() {
 if (Serial.available() > 0) {
  char input = Serial.read(); // Read the input from Serial Monitor
  if (input == '\r' || input == '\n') {
   // When the user presses "Enter", check the entered password
   if (enteredPassword == correctPassword) {
     Serial.println("Access Granted");
     unlockDoor();
     delay(3000); // Keep the door unlocked for 3 seconds
     lockDoor();
     enteredPassword = ""; // Reset password after successful entry
     Serial.println("Enter Password:");
```

```
} else {
     Serial.println("Access Denied");
     tone(buzzerPin, 1000, 500); // Buzzer sound for access denied
     delay(2000); // Wait for 2 seconds
     enteredPassword = ""; // Reset the entered password
     Serial.println("Enter Password:");
   }
  } else if (input == 8) { // Handle backspace (ASCII 8)
   if (enteredPassword.length() > 0) {
     enteredPassword.remove(enteredPassword.length() - 1);
     Serial.print("\b \b"); // Backspace in Serial Monitor
   }
  } else {
   // Append the entered character to the password string
   enteredPassword += input;
   Serial.print(input); // Print the character typed in the Serial Monitor
}
void unlockDoor() {
 lockServo.write(90); // Unlock the door (servo angle 90 degrees)
}
void lockDoor() {
 lockServo.write(0); // Lock the door (servo angle 0 degrees)
}
```