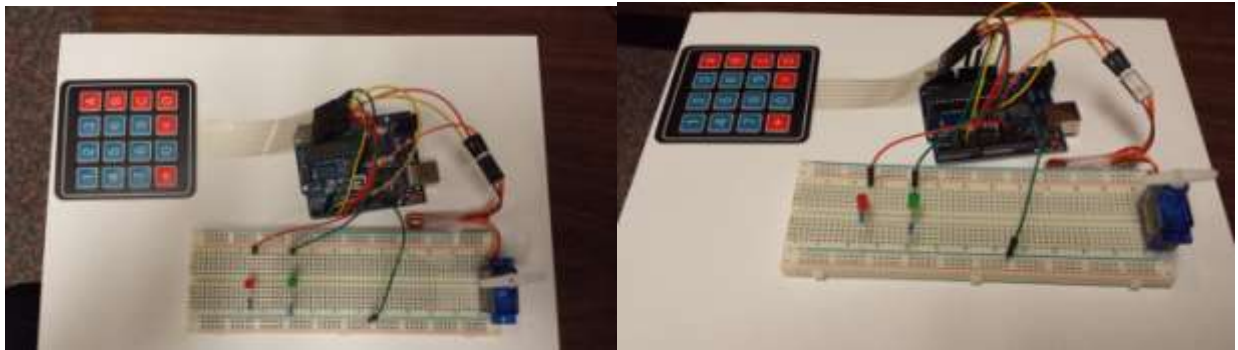


COMPONENTS:

1. Servo Motor
2. Keypad
3. 2 LEDs (GREEN and RED)
4. Arduino Uno Board
5. 2 x 220ohm Resistors
6. Jumper Wires
7. UBS Cable for Arduino



PROGRAM:

```
#include <Servo.h>
#include <Keypad.h>

Servo ServoMotor;

char* password = "753"; // change the password here, just pick any 3 numbers
int position = 0;

const byte ROWS = 4;
const byte COLS = 4;
char keys[ROWS][COLS] = {
```

```
{'1','2','3','A'},  
{'4','5','6','B'},  
{'7','8','9','C'},  
{'*','0','#','D'}  
};
```

```
byte rowPins[ROWS] = { 8, 7, 6, 9 };
```

```
byte colPins[COLS] = { 5, 4, 3, 2 };
```

```
Keypad keypad = Keypad( makeKeymap(keys), rowPins, colPins, ROWS, COLS );
```

```
int RedpinLock = 12;
```

```
int GreenpinUnlock = 13;
```

```
void setup()
```

```
{
```

```
pinMode(RedpinLock, OUTPUT);
```

```
pinMode(GreenpinUnlock, OUTPUT);
```

```
ServoMotor.attach(11);
```

```
LockedPosition(true);
```

```
}
```

```
void loop()
```

```
{
```

```
char key = keypad.getKey();
```

```
if (key == '*' || key == '#')
```

```
{
```

```
position = 0;
```

```
LockedPosition(true);
```

```
}
```

```
if (key == password[position])
```

```
{
```

```
position ++;
}
if (position == 3)
{
  LockedPosition(false);
}
delay(100);
}
void LockedPosition(int locked)
{
  if (locked)
  {
    digitalWrite(RedpinLock, HIGH);
    digitalWrite(GreenpinUnlock, LOW);
    ServoMotor.write(11);
  }
  else
  {
    digitalWrite(RedpinLock, LOW);
    digitalWrite(GreenpinUnlock, HIGH);
    ServoMotor.write(90);
  }
}
```