



//These will give names to numbers and indicate which pins the LEDs are attached to.

```
int Red = 4;
int Yellow = 5;
int Green = 6;
int pedRed = 7;
int pedGreen = 8;
int Button = 9;
```

//These tell the Arduino where the inputs and outputs are connected.

```
void setup() {
  pinMode(Red,OUTPUT);
  pinMode(Yellow,OUTPUT);
  pinMode(Green,OUTPUT);
  pinMode(pedRed,OUTPUT);
  pinMode(pedGreen,OUTPUT);
  pinMode(Button,INPUT);
}
```

//This is a group of instructions that gets performed whenever the group is "recalled".

```
void Flash(){
  digitalWrite(pedRed, HIGH);
  delay(250);
  digitalWrite(pedRed, LOW);
  delay(250);
}
```

//This is where the Program loop starts. The curly bracket indicates the start of the loop, and the other curly bracket is at the end of the loop.

```
void loop() {
  digitalWrite(pedRed, HIGH);
  digitalWrite(Green, HIGH);
```

//The "while" is a little loop that will keep looping until the "statement" is false. It has its own set of curly brackets.

```
while(digitalRead(Button) == LOW){
  delay(10);
}
  delay(1000);
  digitalWrite(Green, LOW);
  digitalWrite(Yellow, HIGH);
  delay(2000);
  digitalWrite(Yellow, LOW);
  digitalWrite(Red, HIGH);
  delay(2000);
  digitalWrite(pedRed, LOW);
  digitalWrite(pedGreen, HIGH);
  delay(5000);
  digitalWrite(pedGreen, LOW);
  Flash();
  Flash();
  Flash();
  Flash();
  Flash();
  digitalWrite(pedRed, HIGH);
  delay(3000);
  digitalWrite(Red, LOW);
}
```

//This curly bracket marks the end of the loop, so the program will go back to the first curly bracket and do it all again.