

```
float x, y, z, temp;

void setup()
{
  pinMode (8, INPUT);
  pinMode (5, OUTPUT);

  pinMode (6, OUTPUT);
  pinMode (A5, INPUT);

  pinMode (A4, INPUT);

  Serial.begin(9600);
}

void loop()
{
  x= digitalRead(8);

  y= analogRead (A5);

  z= analogRead (A4); Serial.println(x);

  Serial.println(y);

  Serial.println(z);

  temp = (double) z / 1024;

  temp = temp = 5;
```

```
temp = temp -0.5;
```

```
temp = temp*100;
```

```
if ((x>0))
```

```
{
```

```
if ((y<550) && (temp>30))
```

```
{
```

```
    digitalWrite(5, HIGH);
```

```
    digitalWrite(6, HIGH);
```

```
}
```

```
else if ((y<550) && (temp<30))
```

```
{
```

```
    digitalWrite(5, HIGH);
```

```
    digitalWrite(6, LOW);
```

```
}
```

```
else if((y>550) && (temp>30))
```

```
{
```

```
    digitalWrite(5, LOW);
```

```
    digitalWrite(6, HIGH);
```

```
}
```

```
else if((y>550) && (temp<30))
```

```
{
```

```
    digitalWrite(5, LOW);
```

```
    digitalWrite(6, LOW);
```

```
}
```

```
else
```

```
{
```

```
digitalWrite(5, LOW);
```

```
digitalWrite(6, LOW);
```

```
}
```

```
}
```

```
}
```

