```
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);
```

```
  }
}
```