ASSIGNMENT 1

Team ID	IBM-Project-48772-1660812817
Project Name	Assignment 1
Maximum Marks	2 Marks

Program Source Code:

```
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);

}

}
```

CIRCUIT DESIGN: