

ASSIGNMENT 1

Date	19 September 2022
Team ID	IBM-Project-17289-1659633579
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:

