## **ASSIGNMENT-1**

```
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(5, LOW);
    digitalWrite(5, LOW);
}</pre>
```

## **Circuits and Output:**





