# PRACTICAL NO.3

## Source Code –

```
float x,y,z,temp;
void setup()
{
// pinMode(8, INPUT);
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 Diagram -