ASSIGNMENT 1

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| Date | 19 September 2022 |
| Team ID | PNT2022TMID42 |
| 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:**

