```
float var2 = 0;
   float calc_temp = 0;
   /* calculate var1 data */
    var1 = ((((float)temp adc / 16384.0f) - ((float)dev->calib.par t1 / 1024.0f))
            * ((float)dev->calib.par t2));
    /* calculate var2 data */
    var2 = (((((float)temp adc / 131072.0f) - ((float)dev->calib.par t1 / 8192.0f)) *
       (((float)temp_adc / 131072.0f) - ((float)dev->calib.par_t1 / 8192.0f))) *
        ((float)dev->calib.par t3 * 16.0f));
   /* t fine value*/
    dev->calib.t fine = (var1 + var2);
   /* compensated temperature data*/
   calc temp = ((dev->calib.t fine) / 5120.0f);
    return calc_temp;
}
/*!
 * @brief This internal API is used to calculate the
 * pressure value in float format
*/
static float calc pressure(uint32 t pres adc, const struct bme680 dev *dev)
   float var1 = 0;
   float var2 = 0;
   float var3 = 0;
   float calc pres = 0;
   var1 = (((float)dev->calib.t fine / 2.0f) - 64000.0f);
   var2 = var1 * var1 * (((float)dev->calib.par p6) / (131072.0f));
   var2 = var2 + (var1 * ((float)dev->calib.par p5) * 2.0f);
   var2 = (var2 / 4.0f) + (((float)dev->calib.par p4) * 65536.0f);
   var1 = (((((float)dev->calib.par p3 * var1 * var1) / 16384.0f)
```