CODE

```
int led=8;
void setup()
{
  pinMode(A0,INPUT);
  pinMode(led,OUTPUT);
  Serial.begin(9600);


}
void loop() {
  int s=analogRead(A0);
  int hv=map(s,0,1023,60,100);
  Serial.print("Heartbeat:");
  Serial.println(hv);
  if(hv>80)
  {
    digitalWrite(led,HIGH);
    Serial.println("High heartbeat");
  }
  else if(hv==80)
  {
    digitalWrite(led,HIGH);
    Serial.println("Normal heartbeat");
  }
```

```
else
{
  digitalWrite(led,LOW);
  Serial.println("Low heartbeat");
}
delay(1000);
}
```