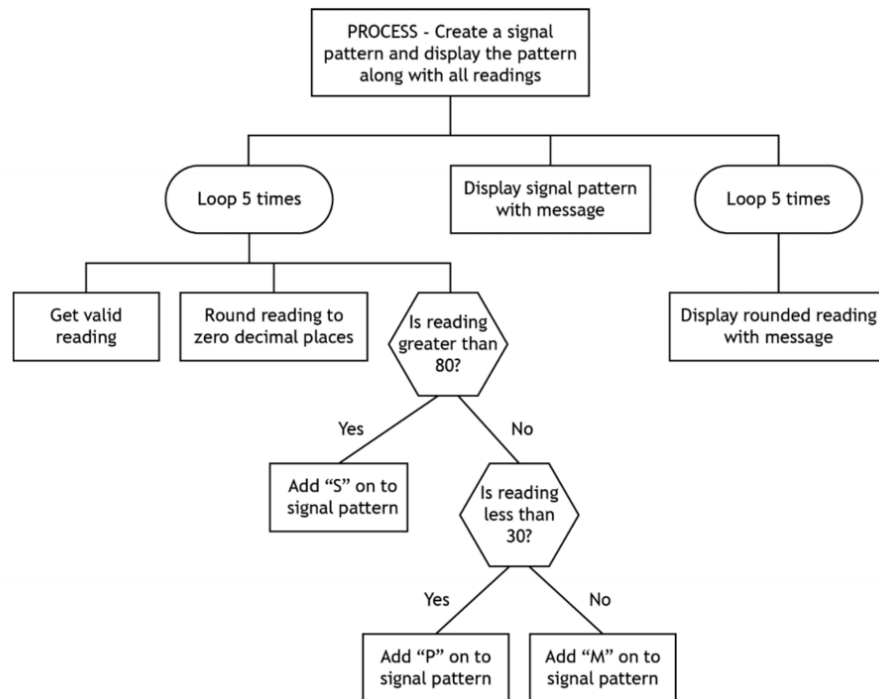


## 2018 Assignment Example Solution

<https://trinket.io/python/b237149a07>

### Design

Program design (structure diagram)



### Implementation

```
1 #2018 Assignment Solution
2
3 reading=[0.0]*5
4 signal = ""
5 index =0
6
7 for counter in range(5): #Start loop for 5 times
8
9 #get valid reading between 0 and 100
10 reading[counter] = float(input("Please enter valid reading"))
11 while reading[counter] < 0 or reading[counter] > 100:
12     reading[counter] = float(input("Please re-enter between 0 and 100"))
13
14 #round to 0 decimal places
15 reading[counter] = round(reading[counter])
16
17 #Create signal pattern - running total but with letters to create signal pattern
18 #S strong above 80, M medium 30 - 79, P poor less than 30
19 if reading[counter] > 80:
20     signal = signal + "S"
21 elif reading[counter]<30:
22     signal = signal + "P"
23 else:
24     signal = signal + "M"
25
26 print("The signal pattern is " + signal)
27
28 for counter in range(5):
29     print("Reading " +str(counter+1)+ " : " + str(reading[counter]))
```