

```

1 from array import *
2 import math
3
4 #####
5 # Declare some stuff
6 # change these values to whatever you need
7 #####
8 n = 1    #order/2
9
10 G = array('f', [1.586])    #gain, depends on order for chevy
11 Fmul_lo = array('f', [1.000])    #Fmul values for low pass
12 Fmul_hi = array('f', [1.000])
13
14 Fcut_lo = float(29*1000)    #Cutoff frequency for low pass
15 Fcut_hi = float(21*1000)
16
17 C = float(0.01*(10**-6))    #Capcitor values for C1 & C2
18
19 R4 = 10000
20 #####
21 # get R3 from R4 and G
22 #####
23 R3 = [0]*n    #making array 3 element
24
25 for i in range(0, n):    #values for R3 for BOTH low and high pass
26     R3[i] = (G[i]-1) * R4
27
28 #####
29 # get values for R
30 #####
31 R_lo = [0]*n
32 R_hi = [0]*n #
33
34 for i in range(0, n):
35     R_lo[i] = 1/(2*math.pi*C*Fmul_lo[i]*Fcut_lo)
36     R_hi[i] = 1/(2*math.pi*C*Fmul_hi[i]*Fcut_hi)
37
38 #####
39 # Print out the results
40 #####
41 print("*****")
42 print("Cutoffs: ")
43 print("*****")
44 print(Fcut_hi/1000, "k to ", Fcut_lo/1000,"k")
45 print("")
46
47 print("*****")
48 print("LOW AND HIGH: ")
49 print("*****")
50 print("R3: ")
51 for x in R3:
52     print("    ",x/1000,"k")
53 print("R4: ",R4/1000,"k")
54 print("C1 & C2: ",C*1000000,"uF")
55 print("")
56
57 print("*****")
58 print("LOW Pass: ")
59 print("*****")
60 print("R1 & R2:")
61 for x in R_lo:
62     print("    ",x/1000,"k")
63 print("")
64
65 print("*****")
66 print("HIGH pass: ")
67 print("*****")

```

```
68 print("R1 & R2:")
69 for x in R_hi:
70     print("    ",x/1000,"k")
71
```