```
clearvars
 close all
 format shortEng
 syms R_a R_b C
 assume(R_a > 0);
 assume(R_b > 0);
 C = 10e-9
 C =
     10.0000e-009
 wantedFreq = 20e3
 wantedFreq =
     20.0000e+003
 wantedDuty = 0.6
 wantedDuty =
    600.0000e-003
 freq = 1.44/((R_a + 2*R_b)*C);
 duty = 1 - R_b/(R_a + 2*R_b);
 eq1 = wantedFreq == freq;
 eq2 = wantedDuty == duty;
 sln = solve([eq1, eq2], [R_a, R_b])
 sln = struct with fields:
     R_a: 1440
     R_b: 2880
 obtainedFreq = double(subs(freq, [R_a, R_b], [sln.R_a, sln.R_b]))
 obtainedFreq =
     20.0000e+003
 obtainedDuty= double(subs(duty, [R_a, R_b], [sln.R_a, sln.R_b]))
 obtainedDuty =
    600.0000e-003
Experimanetal Solver
 valR_a = 10e3
```

```
valR_b =
   20.0000e+003
```

```
obtainedFreq = double(subs(freq, [R_a, R_b], [valR_a, valR_b]))
```

obtainedFreq =
 2.8800e+003

obtainedDuty= double(subs(duty, [R_a, R_b], [valR_a, valR_b]))

obtainedDuty =
 600.0000e-003