SDOF calculator

Single Degree of Freedom Vibration Calculator:

(•) Free vibration ( ) Forced vibration <----SUBMIT

Parameters:.....

* Mass [m]: (Default value = 1 unit)	10	kg
* Spring rate (Stiffness) [k]: (Default value = 1 unit)	15	N/m
* Damping ratio (coefficient) [ζ]: (Default value = 0.1)	0.2	
.....Harmonic input..... .....frequency.....	input frequency = 0	
Result:.....give calculate>>>>	Calculate	
Cicular frequency [wn] =	1.225	rad/s
Natural frequency [fn] =	0.195	Hz
Period of oscilattion [T] =	5.13	seconds
Critical damping [cc] =	24.495	N s/m
Damping factor [c] =	4.899	N s/m
Damped natural angular frequency [wd] =	1.2	rad/s
Damped natural frequency [fd] =	0.191	Hz
Quality factor [Q] =	2.5	--
Transmissiblity [TR] =	0.0	--