In[●]:= `DSolve[{l'[t] == -I * (l[t]/2) * c1 - (1/2) * m[t],`
`    m'[t] == (1/2) * l[t] * c1^2 - (I/2) * m[t] * c1}, {l[t], m[t]}, t]`

Out[●]= $\left\{\left\{l[t] \to \frac{1}{2} e^{-i\,c1\,t} \left(1 + e^{i\,c1\,t}\right) C[1] + \frac{i\,e^{-i\,c1\,t} \left(-1 + e^{i\,c1\,t}\right) C[2]}{2\,c1}\right.\right.$,

$\left.\left.m[t] \to -\frac{1}{2} i\,c1\,e^{-i\,c1\,t} \left(-1 + e^{i\,c1\,t}\right) C[1] + \frac{1}{2} e^{-i\,c1\,t} \left(1 + e^{i\,c1\,t}\right) C[2]\right\}\right\}$

In[●]:= $\frac{1}{2} e^{-i\,c1\,t} \left(1 + e^{i\,c1\,t}\right) C[1] + \frac{i\,e^{-i\,c1\,t} \left(-1 + e^{i\,c1\,t}\right) C[2]}{2\,c1}$

Out[●]= $\frac{1}{2} e^{-i\,c1\,t} \left(1 + e^{i\,c1\,t}\right) C[1] + \frac{i\,e^{-i\,c1\,t} \left(-1 + e^{i\,c1\,t}\right) C[2]}{2\,c1}$

In[●]:= `Expand[` $\frac{1}{2} e^{-i\,c1\,t} \left(1 + e^{i\,c1\,t}\right) C[1] + \frac{i\,e^{-i\,c1\,t} \left(-1 + e^{i\,c1\,t}\right) C[2]}{2\,c1}$ `]`

Out[●]= $\frac{C[1]}{2} + \frac{1}{2} e^{-i\,c1\,t} C[1] + \frac{i\,C[2]}{2\,c1} - \frac{i\,e^{-i\,c1\,t} C[2]}{2\,c1}$

In[●]:= `Collect[%, Exp[-I * c1 * t]]`

Out[●]= $\frac{C[1]}{2} + \frac{i\,C[2]}{2\,c1} + e^{-i\,c1\,t} \left(\frac{C[1]}{2} - \frac{i\,C[2]}{2\,c1}\right)$