```
Day-7
  \rightarrow m_i = 400 \text{ kg}
\frac{dn}{dt} = -5 \text{ kg s}^{-1}
                                          (g = 10 ms-2)
         Ugas, sached = -3500 ms-1
          Q(0) = ?, \quad Q(0) = ?
        Forom socket frame,
Aug.)
           F = \frac{4dm}{dt} \qquad (4 = 3500 \text{ ms}^{-1})
          This some force acts on socket.

So maly = valm

clt dt
              \Rightarrow q = \frac{y}{m} \frac{dm}{dt} = \frac{3500 \times 5}{400 - 5t}
                                                  4∞-St
                                          =\frac{3500}{80-1} ms<sup>-2</sup>
          a(0) = 43.75 \text{ ms}^{-2}

a(0) = 50 \text{ ms}^{-2}
```