Install gradient_damage on Ubuntu:

1. To install FEniCS on Ubuntu, run the following commands:

    A) sudo apt-get install software-properties-common
    B) sudo add-apt-repository ppa:fenics-packages/fenics
    C) sudo apt-get update
    D) sudo apt-get install --no-install-recommends fenics
    E) sudo apt-get dist-upgrade

2. Download the gradient damage: git clone https://bitbucket.org/cmaurini/gradient-damage.git
3. cd gradient-damage
4. change the python path (pwd: present working directory)
    A) Export PYTHONPATH=$(pwd):$PYTHONPATH
    B)   Check the PYTHON path: echo $PYTHONPATH
5. Add the PYTHON path to bashrc permanently:
    A) Edit bashrc: gedit ~/.bashrc
    B) Add the line to end of the file and save it: export PYTHONPATH=/home/user/gradient-damage:$PYTHONPATH
    C) Comment: /home/user/gradient-damage is the location of the folder contains the gradient damage classes (problem, material, and...)

6. install gmsh:
    A) sudo apt-get update
    B) sudo apt-get install gmsh