Step 1: At first, put the following files in one specific directory (Figure 1):
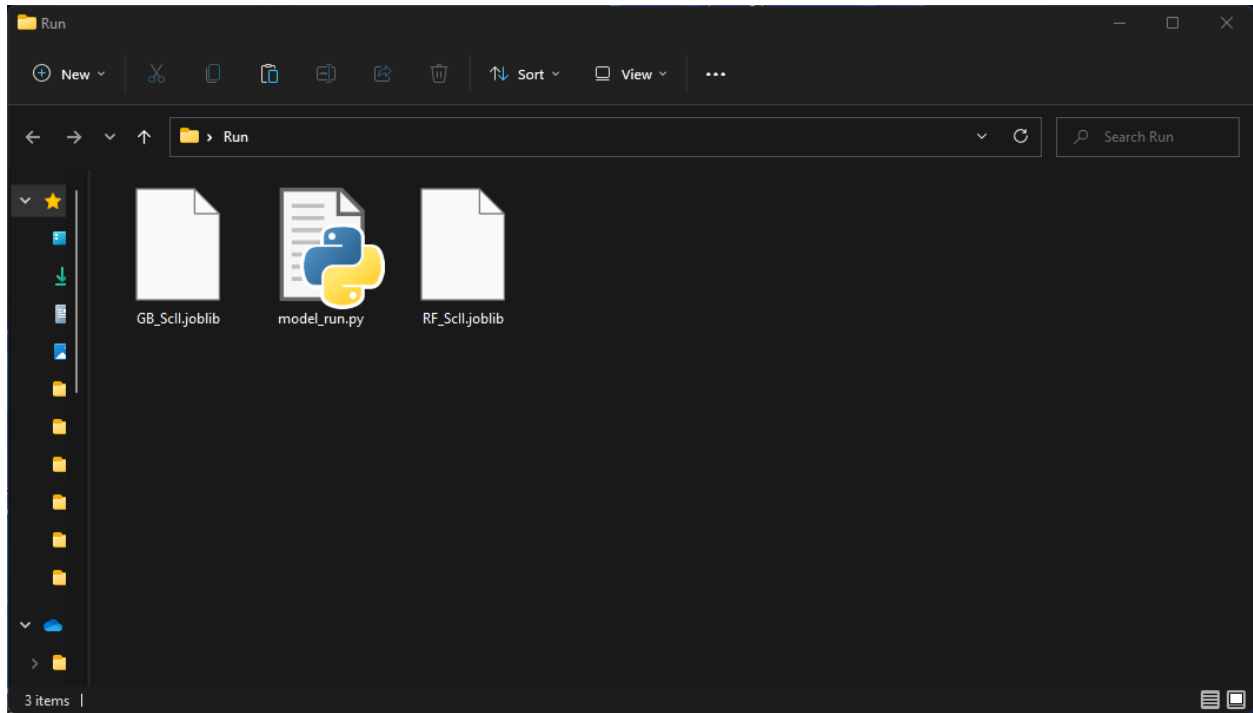
Step 2: Make sure that you have installed the following libraries in your environment[1]:

1. Numpy
2. Pandas
3. Sklearn

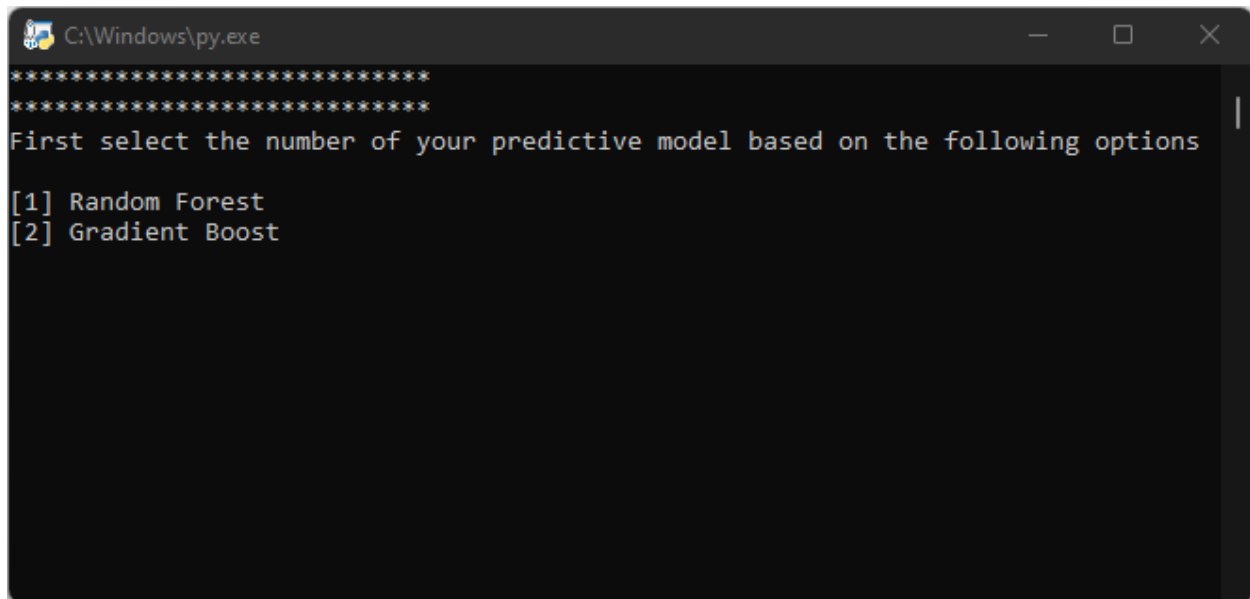Step 3: Run the *model_run.py* file; the following options will appear (Figure 2):

Step 4: Select one of the proposed models by writing the number of the model:

For example, write: *1* and then press *Enter* for running the Random Forest model:

[1] Random Forest

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[1] Required libraries can be installed with pip install method, click here for mopre information

Figure 3. select your predictive model

Step 5: enter the required inputs in this order: X_l, X_c, Rj, H_{colmn}/d, L_{beam}/d and separate them with space according to Figure 4. For example, if you want to evaluate a BCJ with the following properties:

Cracking index= 1.58

Crushing index= 0.0

Joint aspect ratio= 0.73

$H_{colmn}/d = 7.14$

$L_{beam}/d = 9.2$

You must enter: 1.58   0.0   0.73   7.14   9.2

And then press the *Enter* bottom

Figure 4. Enter the required inputs

The output of the model will be shown as depicted in Figure 5.

Figure 5. Output of the model