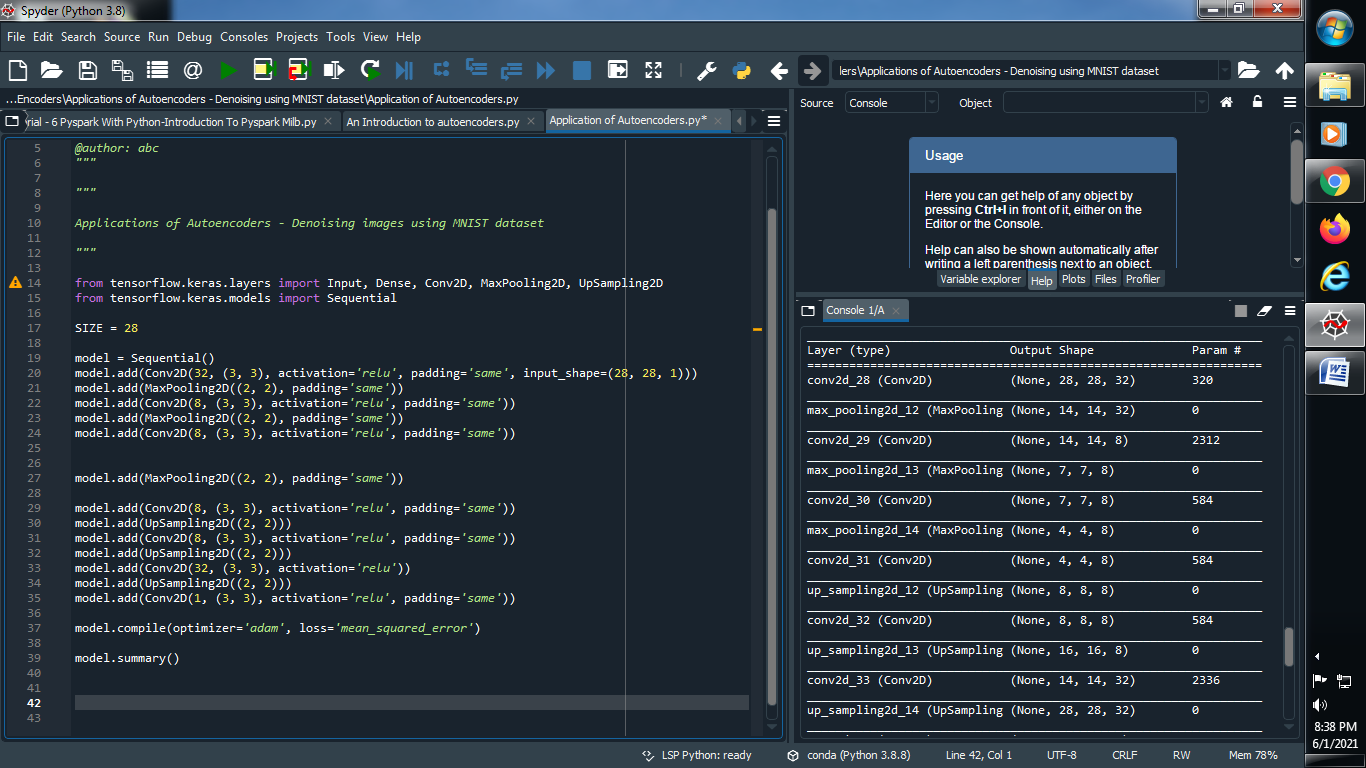
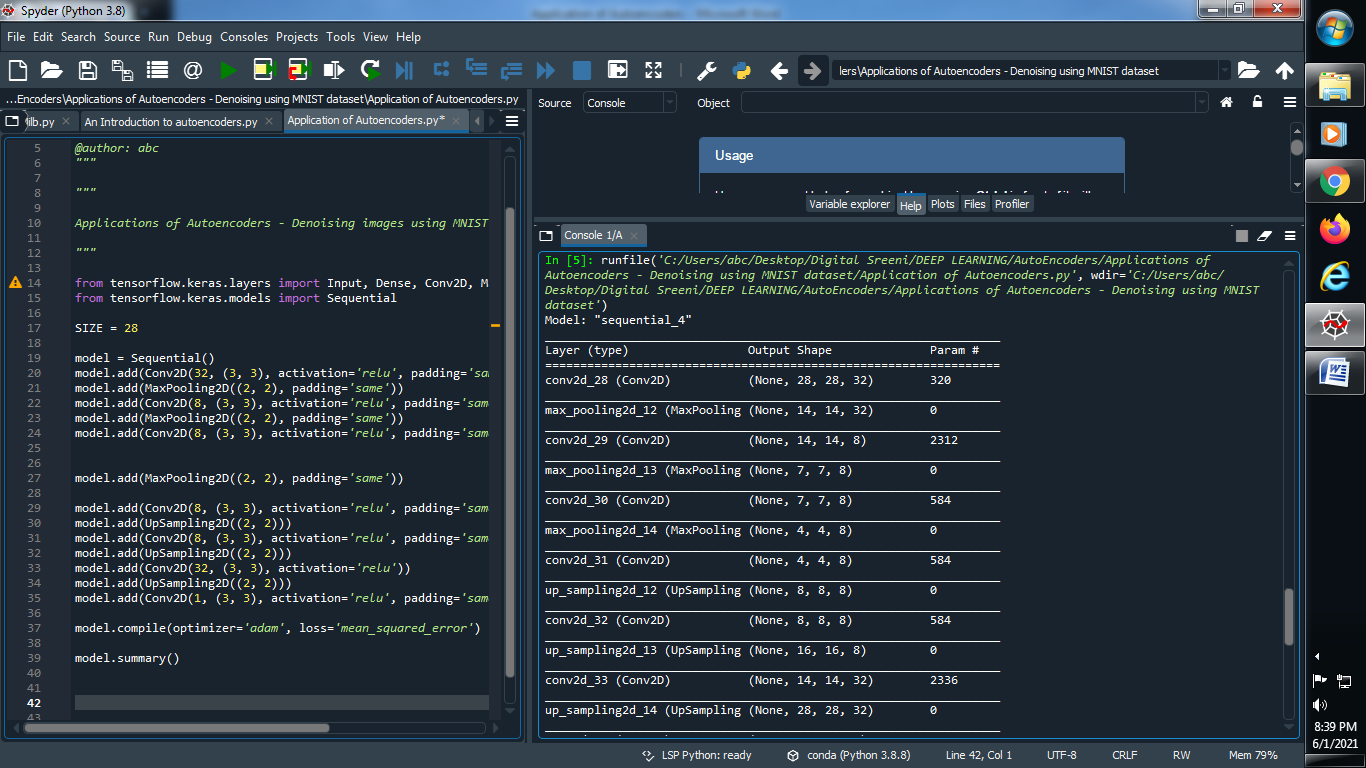
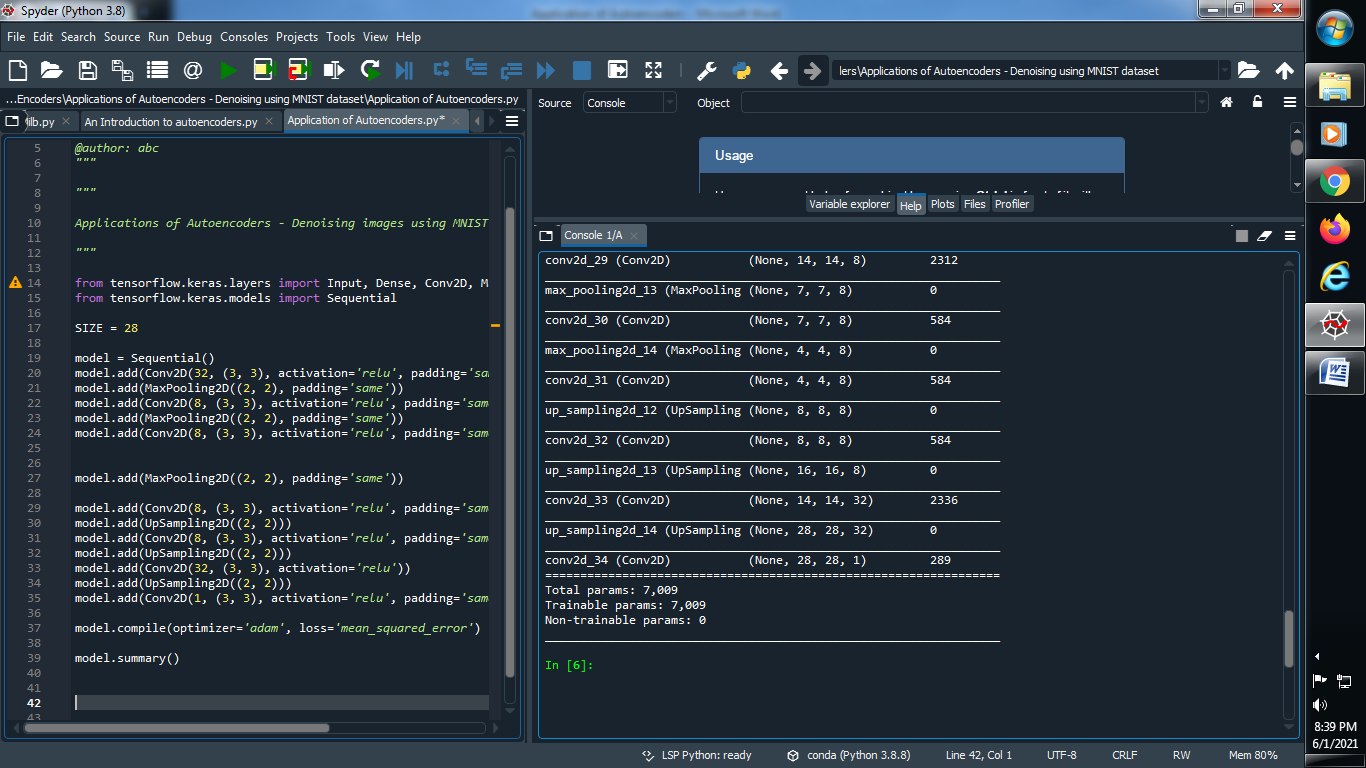
**→ Application of Autoencoders – Denoising using MNIST dataset :**

**→ Main Algo of autoencoders :**

**s**

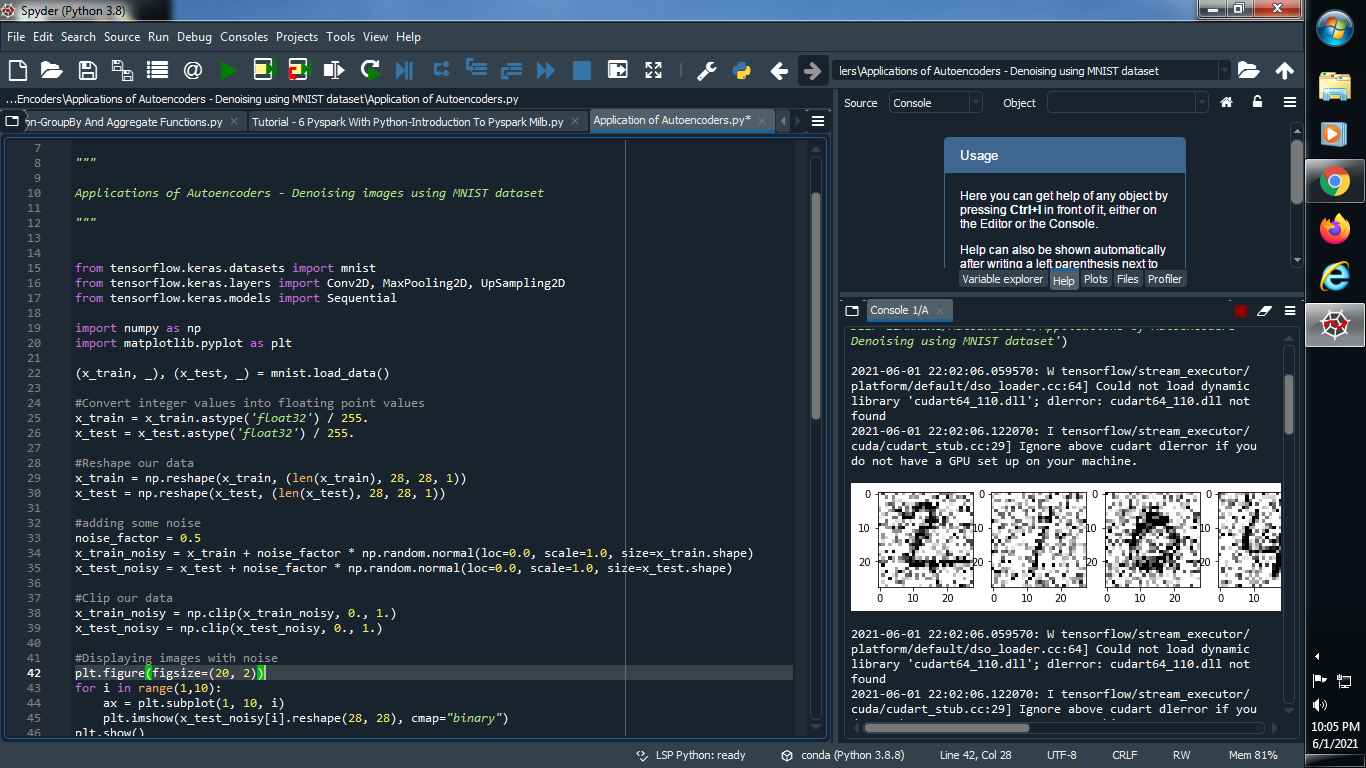
**Output :**

****

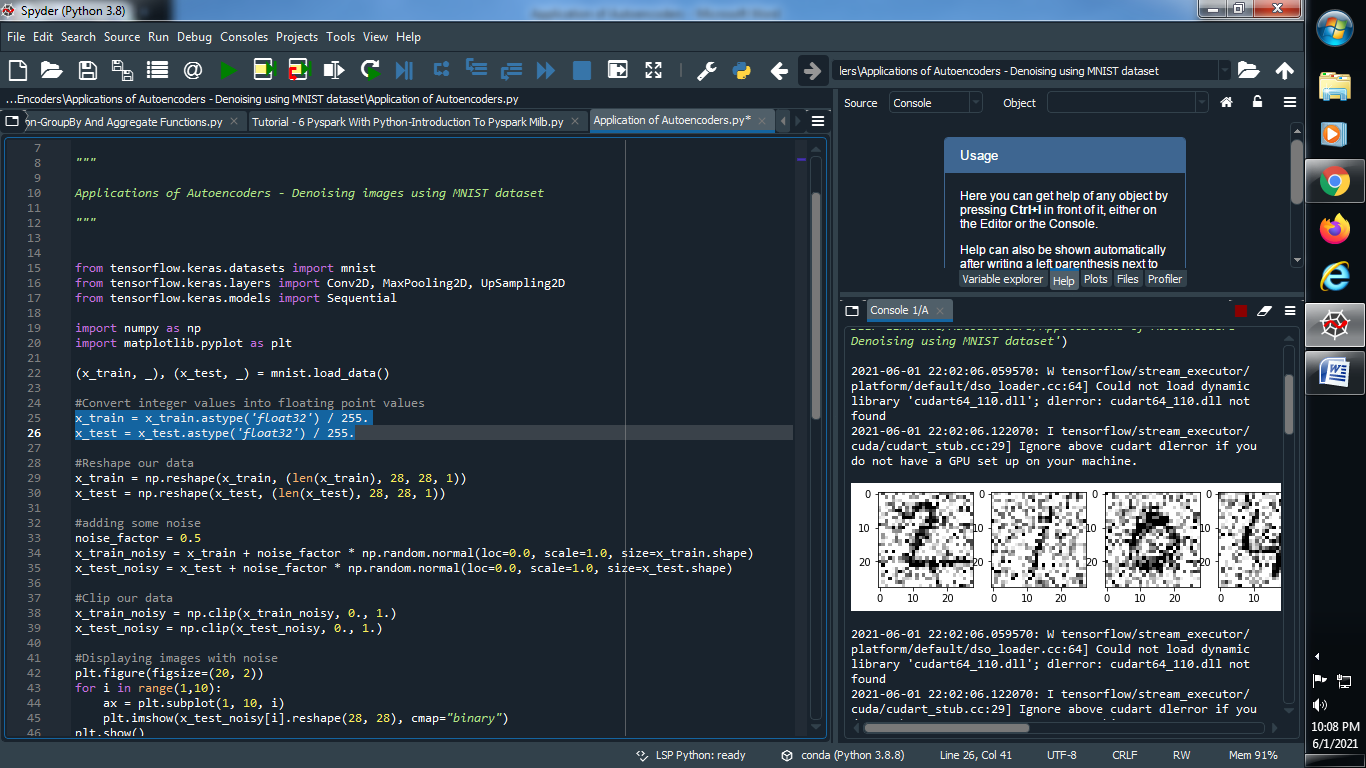
****

**####################################################################################**

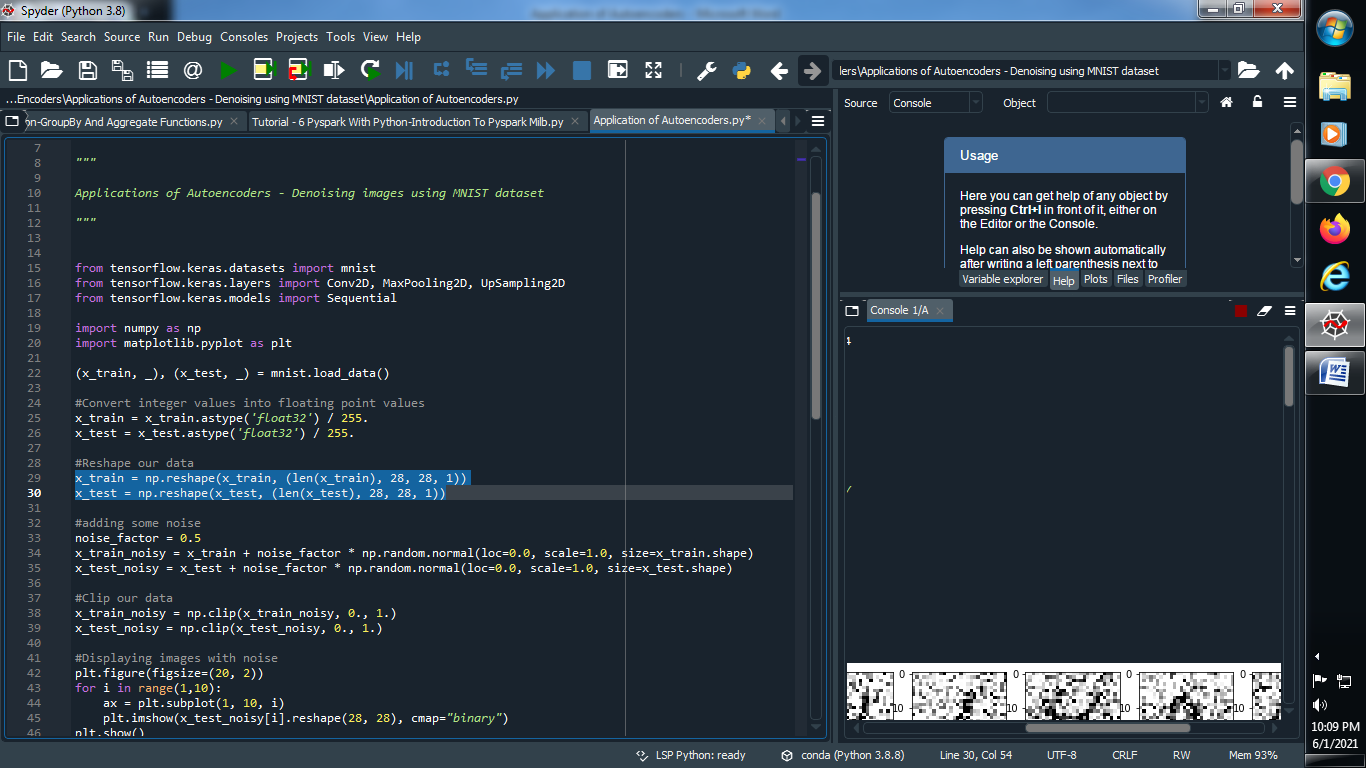
**(1) import library and load our mnist dataset :**

****

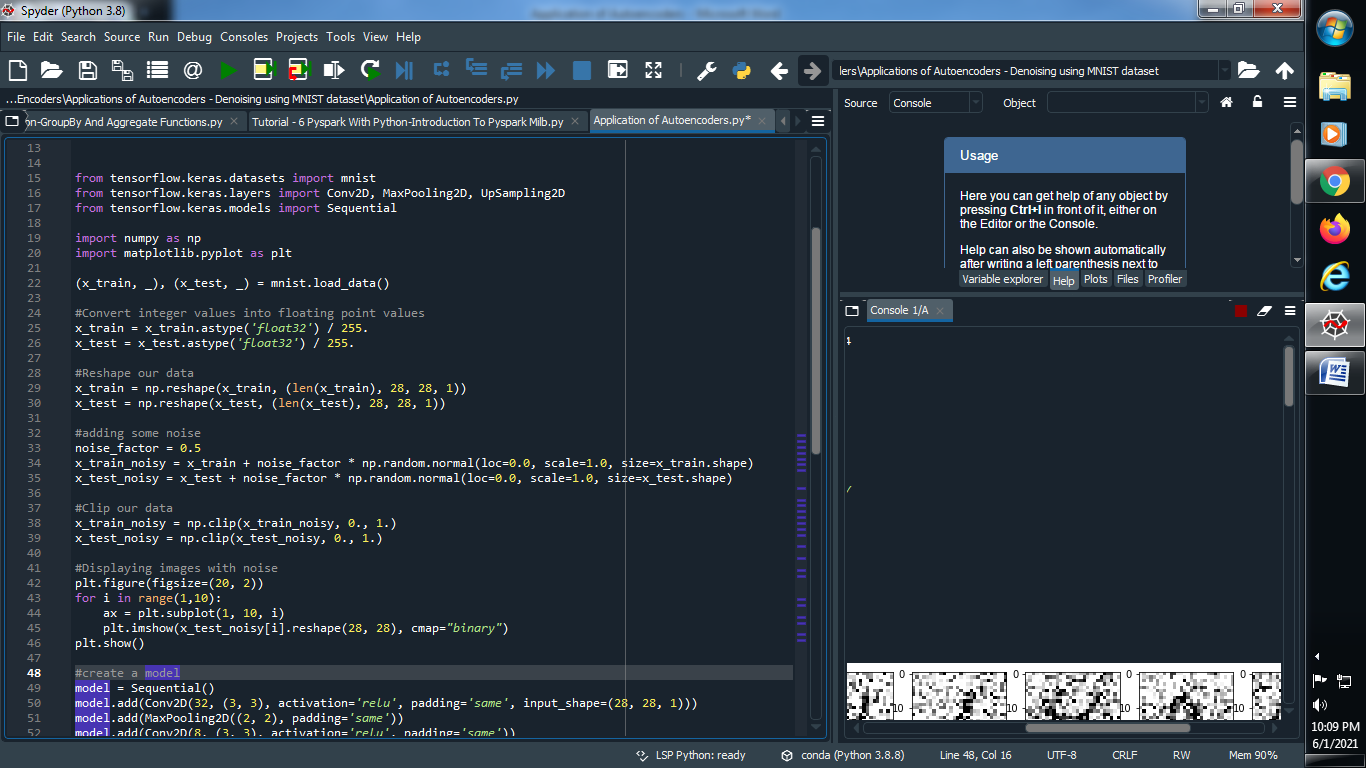
**(2) Convert our data value into floating point and normalize it :**

****

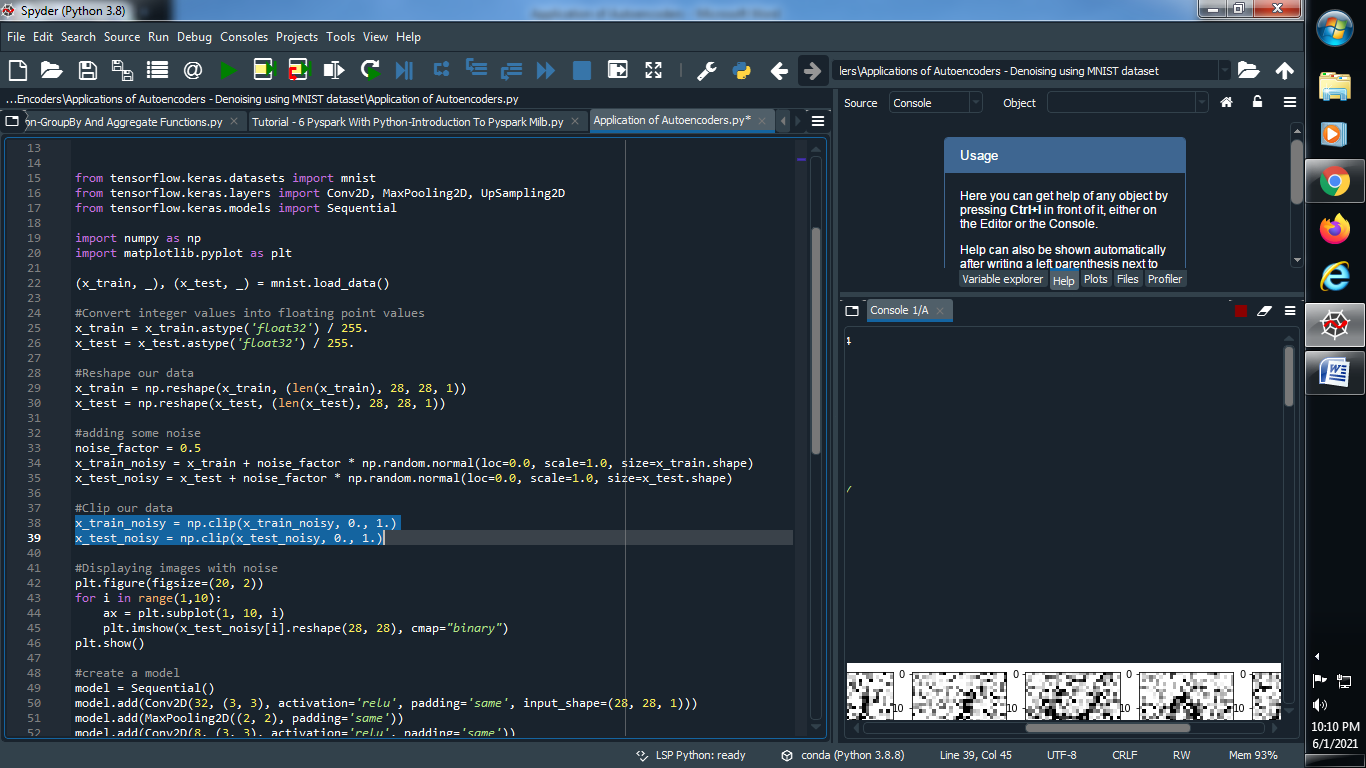
**(3) Reshape our data :**

****

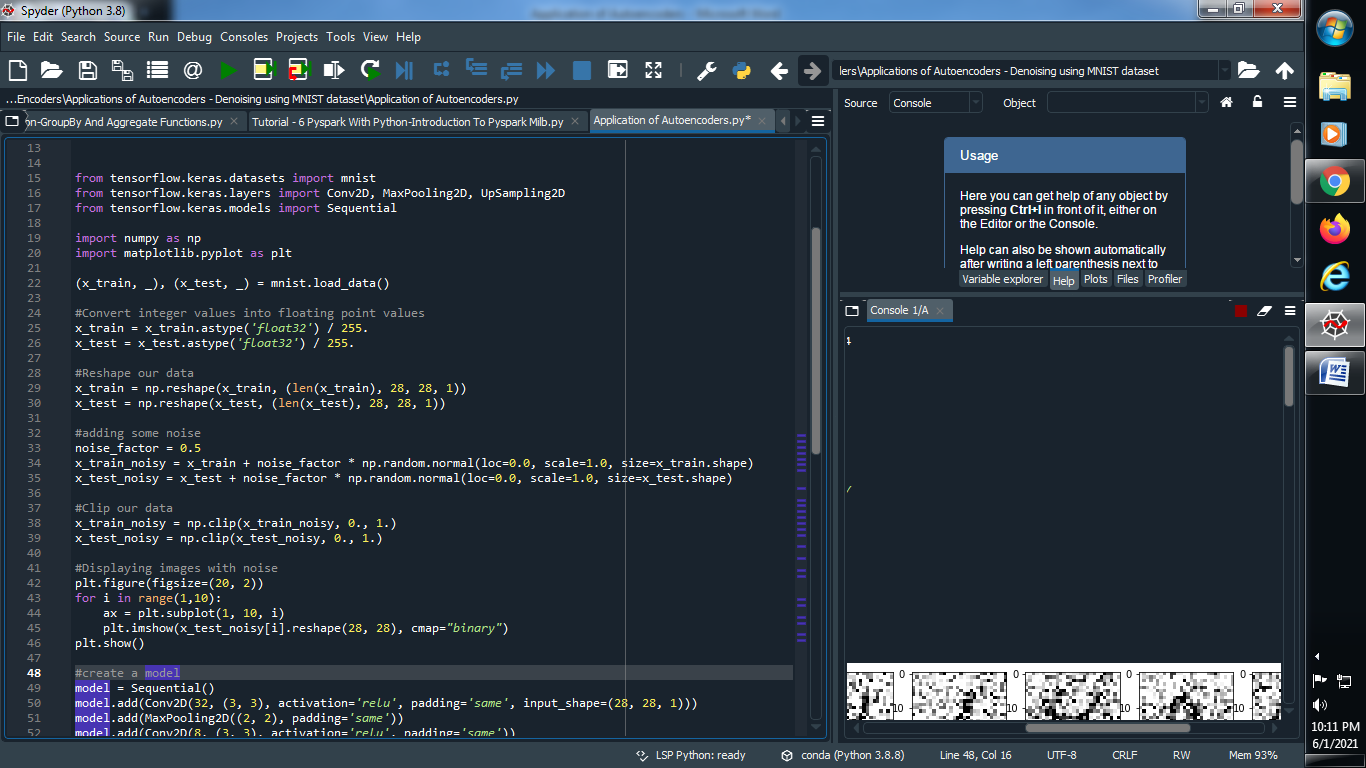
**(4) Adding some noise :**

****

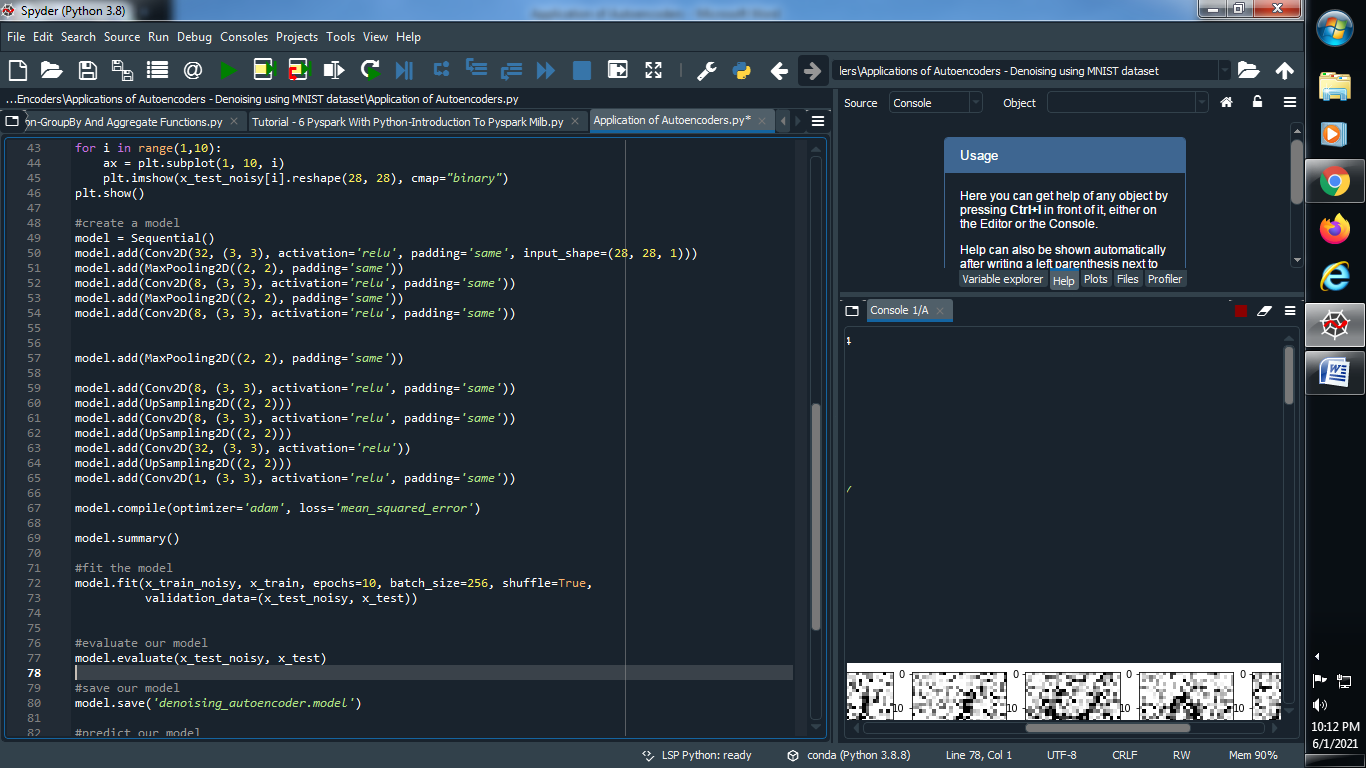
**(5) Clip to our data :**

****

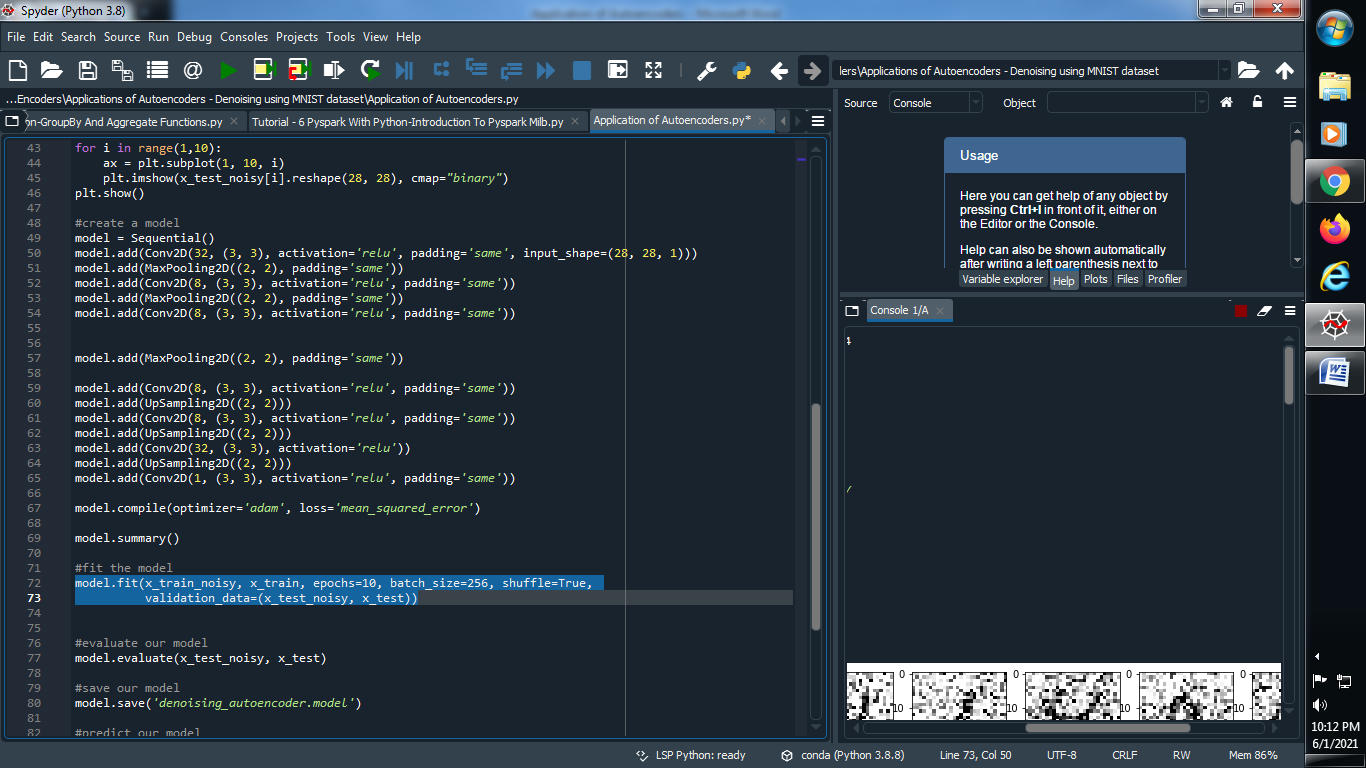
**(6) Displaying images with noise :**

****

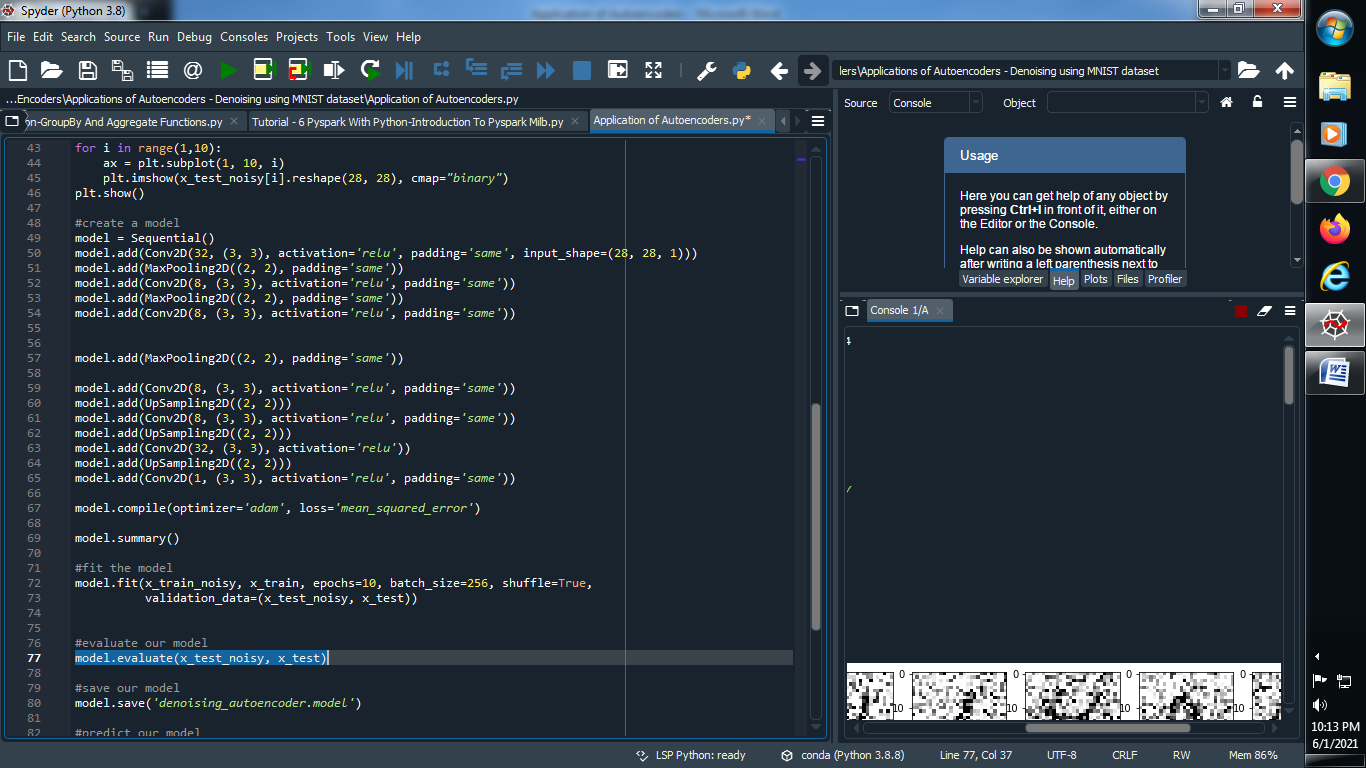
**(7) Create a model :**

****

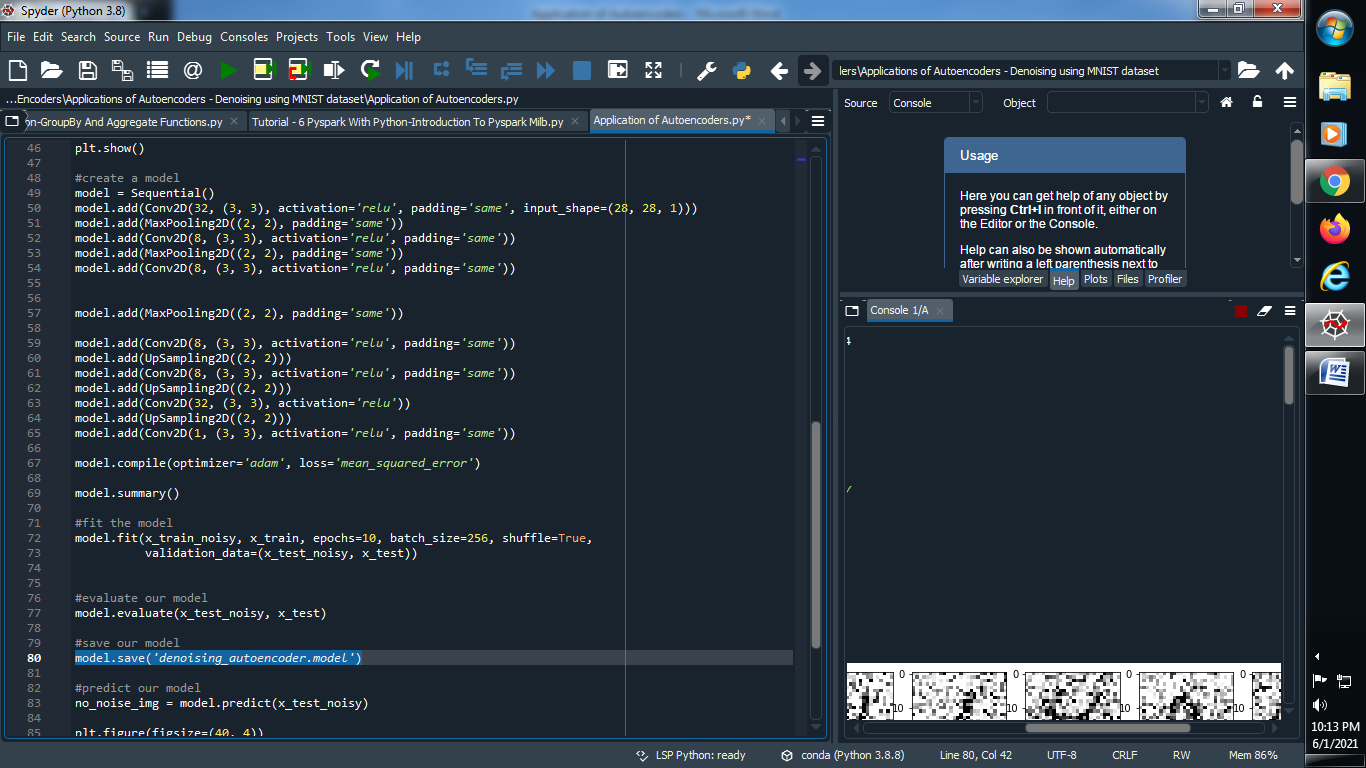
**(8) Fit the model :**

****

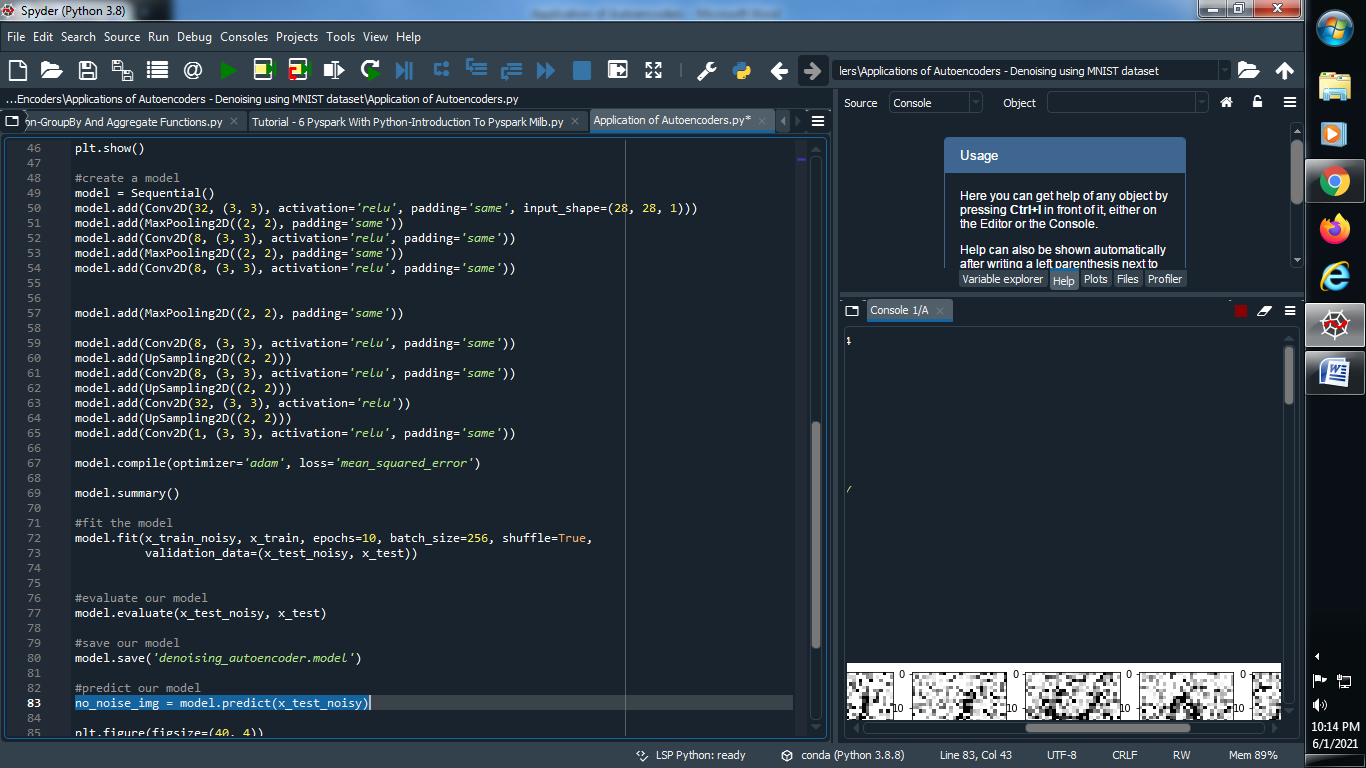
**(9) Evaluate our model :**

****

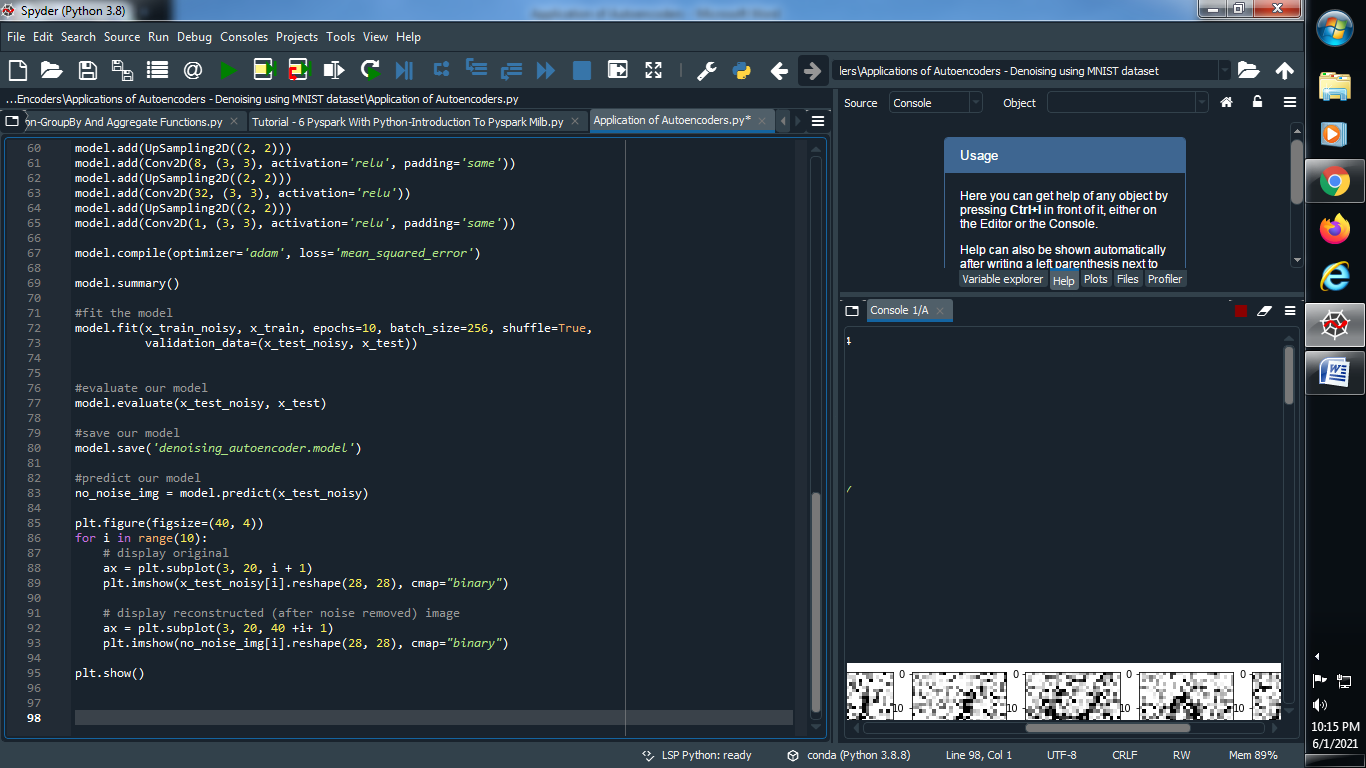
**(10) Save the model :**

****

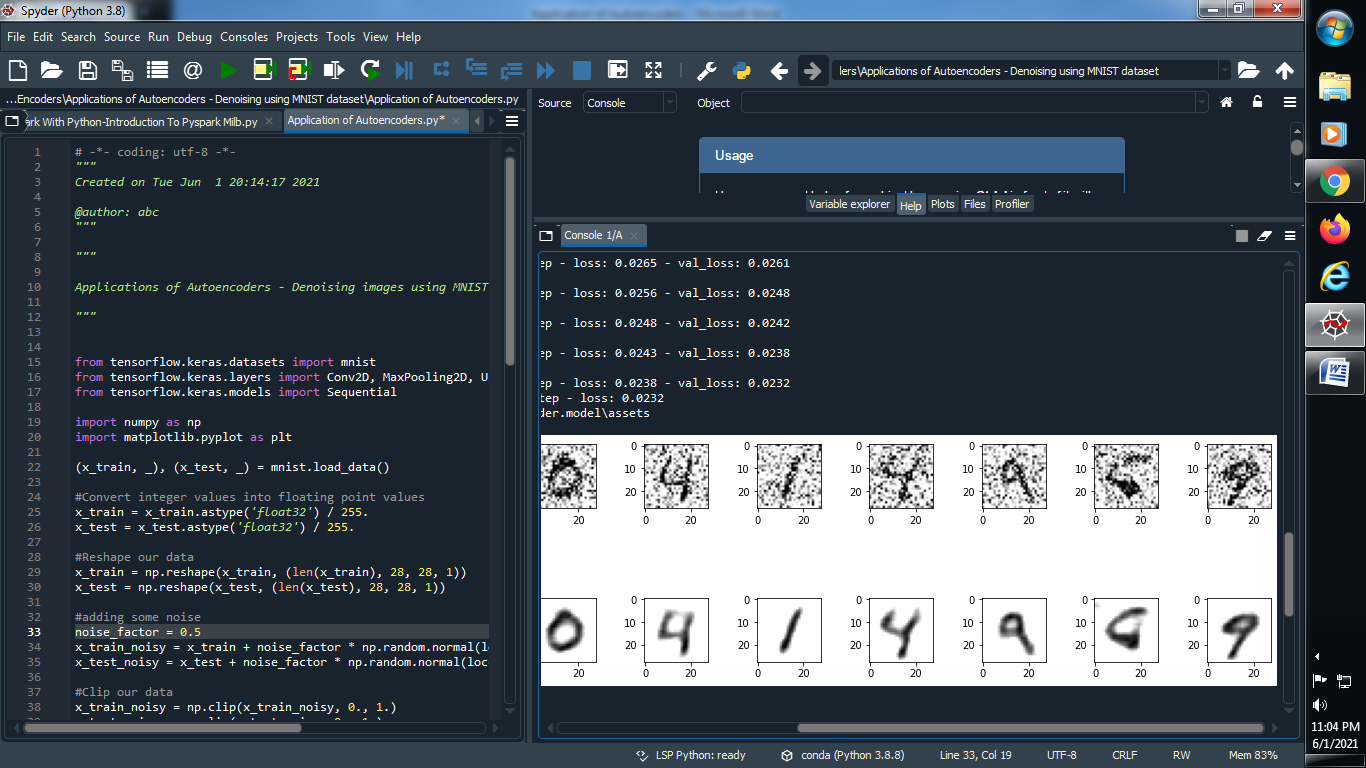
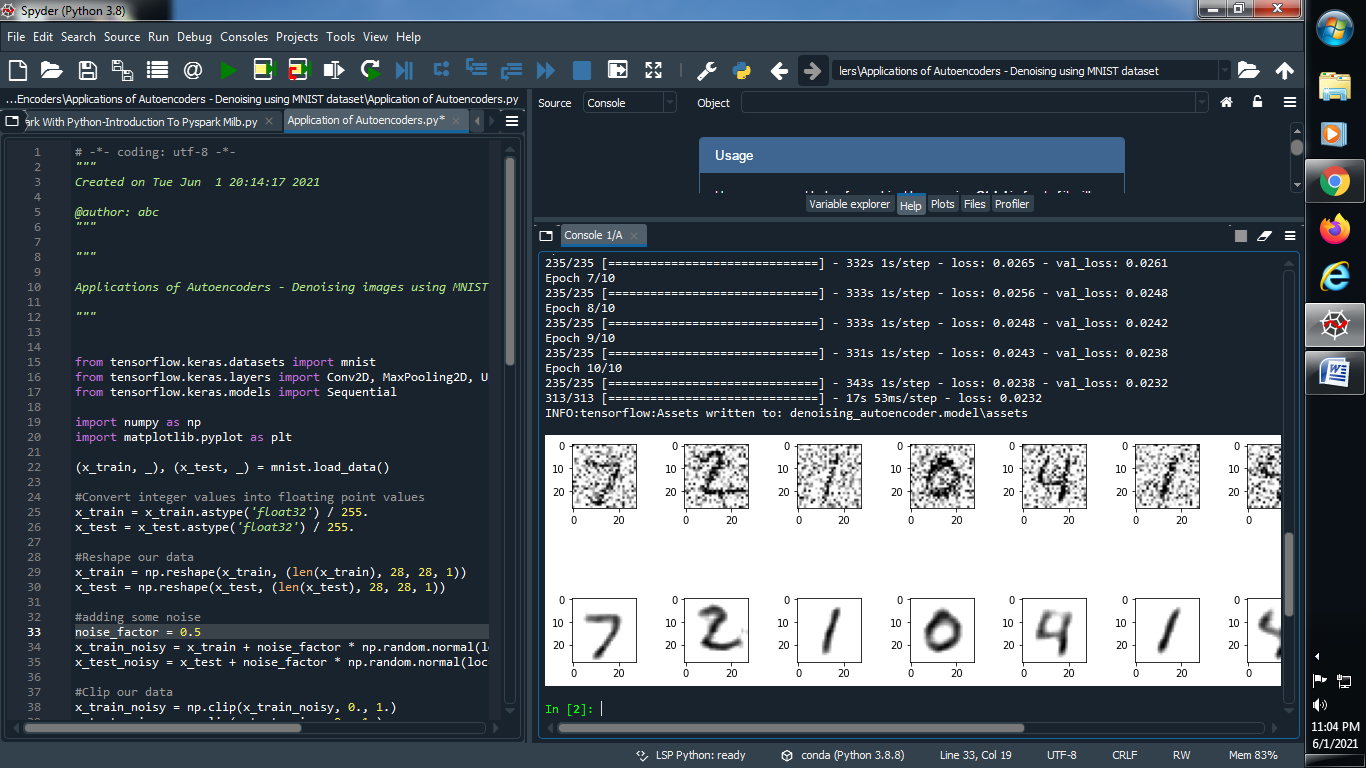
**(11) Predict our model :**

****

**(12) Let’s see our model :**

****

**Output :**

****