**Anaconda Env set up:**

1. Open the Anaconda Prompt and run:

**conda env create -f summarization.yml**

1. Activate env:

**conda activate myenv**

1. Install Spacy package:

**python -m spacy download en**

1. Ready.

**Running the Project:**

1. Open the **testing\0\_Bug-Report-Summarization-main folder** in conda env:

**cd testing\0\_Bug-Report-Summarization-main\**

1. Run the *BERT-as-Service* in terminal with the model path **uncased\_L-12\_H-768\_A-12**:

**bert-serving-start -model\_dir uncased\_L-12\_H-768\_A-12 -num\_worker=1**

1. To Preprocess and Classify sentences run *DataPreprocess.py* file in another terminal:

**python DataPreprocess.py**

* Input file name is *BugSum\_Data\_DDS\_35-forrun.xlsx*
* Output is Classified sentences from each bug report stored in **testing\0\_Bug-Report-Summarization-main\classifiedsentences** folder and *BugSum\_Data\_DDS\_35-forrun.xlsx* file.

1. To Rank sentences open **testing\2\_sentence\_ranking** folder and run the ***rank\_sentences.py*** file:

**python rank\_sentences.py**

* Input file name is *BugSum\_Data\_DDS\_35-forrun.xlsx* (the output of the first preprocessing and classification step)
* Output is ranked sentences stored in **testing\2\_sentence\_ranking**\**ranked\_sentences** folder.

5. To generate summaries open **testing\3\_summarizer** folder and run the *bart\_.py* file:

**python bart\_.py**

* Input is ranked sentences stored in **testing\2\_sentence\_ranking**\**ranked\_sentences** folder.
* Output is new generated summaries merged with classified sentences stored in **testing\0\_Bug-Report-Summarization-main**\**classifiedsentences//**