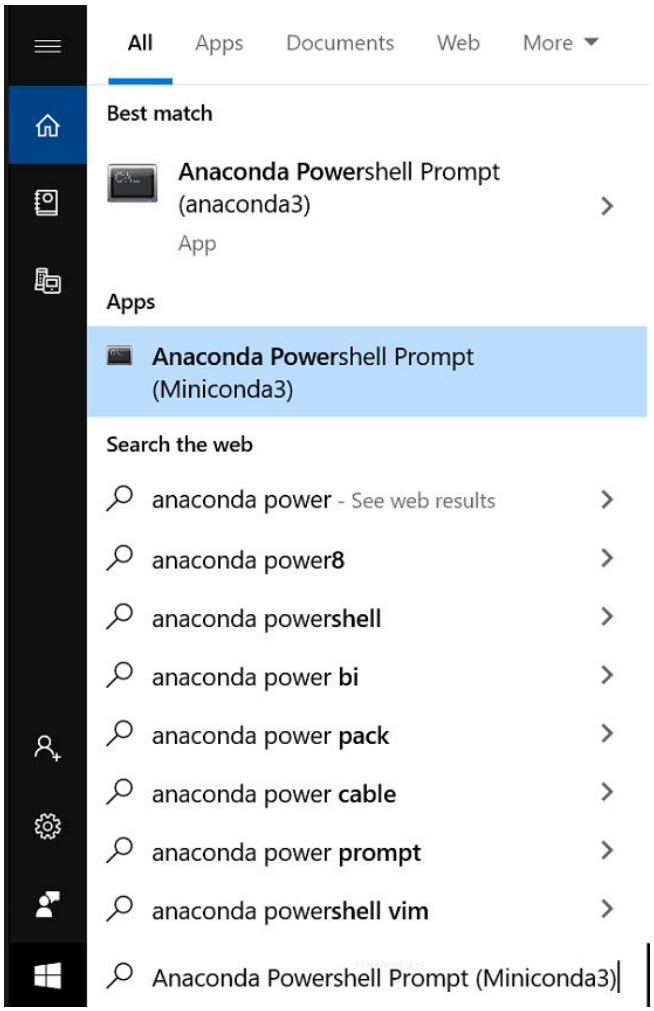
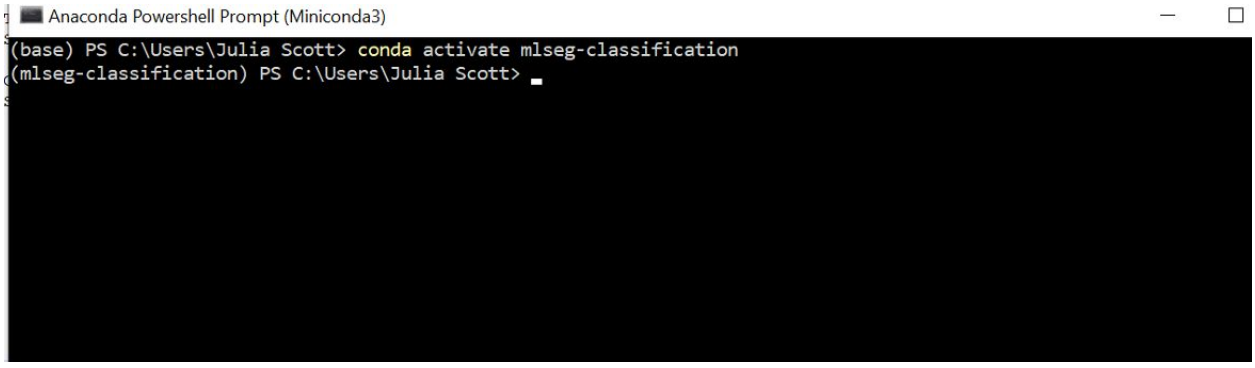
STEPS TO EXECUTE THE SCRIPT

1. Type **Anaconda Powershell Prompt (Miniconda3)** on windows toolbar



2. Click on **Anaconda Powershell Prompt (Miniconda3)**
3. A powershell window will appear.
4. Type **conda activate mlseg-classification** on the powershell window



<Note> We are using conda to execute python scripts, that's why we need to activate the environment, this environment contains all the libraries needed by python script to run. In the context of DICOM metadata parser, SimpleITK to read Dicom file and xlwt to write into excel file are used.

5. If the environment is successfully loaded we can see (mlseg-classification) which is our environment name on the left side of the file path in the shell.

```
(mlseg-classification) PS C:\Users\Julia Scott> _
```

6. After this we need to run the script. Script takes two parameters, one is the input folder path where collection data is present and second is the output file path where excel file will be generated. A sample command is mentioned below

   python **'C:\Users\Julia Scott\Desktop\Varian 2020_2021\Github\DicomMetaDataExtracter\readDICOMMetadata.py'** 'C:\Users\Julia Scott\Desktop\Varian 2020_2021\Professor_Scott\Collection_data\HNSCC\HNSCC-01-0001' 'C:\Users\Julia Scott\Desktop\Varian 2020_2021\Prashul\01 Dicom Parser\Output Excel Files\output.xlsx'

   General format - **python *'<script_loc>'* '<input_folder_path>' '<excel_file_path>'**

   Note - Enclose script_loc,input_folder and input_folder_path contain spaces that's why we need to enclose them in single quotes.

7. Run the script ,

```
mlseg-classification) PS C:\Users\Julia Scott> python 'C:\Users\Julia Scott\Desktop\Varian 2020_2021\Github\DicomMeta
aExtracter\readDICOMMetadata.py'  'C:\Users\Julia Scott\Desktop\Varian 2020_2021\Professor_Scott\Collection_data\HNSC
NSCC-01-0001' 'C:\Users\Julia Scott\Desktop\Varian 2020_2021\Prashul\01 Dicom Parser\Output Excel Files\output.xlsx'
rgumements passed  3
nput Directory name : C:\Users\Julia Scott\Desktop\Varian 2020_2021\Professor_Scott\Collection_data\HNSCC\HNSCC-01-00

utput file path name : C:\Users\Julia Scott\Desktop\Varian 2020_2021\Prashul\01 Dicom Parser\Output Excel Files\outpu
lsx
efaultdict(<class 'list'>, {})
efaultdict(<class 'list'>, {})
***Metadata extraction completed****
```

   Metadata extraction completed* indicates the script is executed successfully.
   Note - In most cases if script gives Permission Error mentioned below

```
    f = open(file_name_or_filelike_obj, 'w+b')
PermissionError: [Errno 13] Permission denied: 'C:\\Users\\Julia Scott\\Desktop\\Varian 2020_2021\\Prashul\\01 Dicom Par
ser\\Output Excel Files\\output.xlsx'
```

   This error usually occurs when the excel which we are writing is opened,please close the file and rerun the script.

8. Excel file is generated .

	PATIENT_ID	STUDY_DES	SERIES_DA	SERIES_DE	BODY_PART	IMAGE_TYP	PATIENT_PO	ORIENTATIO	SLICE_THIC	PIXEL_SPAC	NO_OF_STA	FILE_LOCATION
2	HNSCC-01-000	PET/CT HEA	19990327		HEADNECK	ORIGINAL\P	HFS	1\0\0\0\1\-0	3.2700	5.46875\5.46	90	C:\Users\Julia Scott\Desktop\Varian 202(
3	HNSCC-01-000	PET/CT HEA	19990327		HEADNECK	ORIGINAL\P	HFS	1\0\0\0\1\-0	3.2700	5.46875\5.46	90	C:\Users\Julia Scott\Desktop\Varian 202(
4	HNSCC-01-000	PET/CT HEA	19990327		HEADNECK	DERIVED\PF	HFS	0.000000\1.0	5.468750	1.367188\1.3	149	C:\Users\Julia Scott\Desktop\Varian 202(
5	HNSCC-01-000	PET/CT HEA	19990327		HEADNECK	ORIGINAL\P	HFS	1.000000\0.0	3.750000	0.976562\0.9	222	C:\Users\Julia Scott\Desktop\Varian 202(
6	HNSCC-01-000	PET/CT HEA	19981201		HEADNECK	ORIGINAL\P	HFS	1\0\0\0\1\-0	3.2700	5.46875\5.46	92	C:\Users\Julia Scott\Desktop\Varian 202(
7	HNSCC-01-000	PET/CT HEA	19981201		HEADNECK	ORIGINAL\P	HFS	1\0\0\0\1\-0	3.2700	5.46875\5.46	92	C:\Users\Julia Scott\Desktop\Varian 202(
8	HNSCC-01-000	PET/CT HEA	19981201		HEADNECK	DERIVED\PF	HFS	0.000000\1.0	5.468750	1.367188\1.3	149	C:\Users\Julia Scott\Desktop\Varian 202(
9	HNSCC-01-000	PET/CT HEA	19981201		HEADNECK	ORIGINAL\P	HFS	1.000000\0.0	3.750000	0.976562\0.9	222	C:\Users\Julia Scott\Desktop\Varian 202(
10	HNSCC-01-000	PET/CT HEA	19981201		HEADNECK	ORIGINAL\P	HFS	1\0\0\0\1\-0	3.2700	5.46875\5.46	222	C:\Users\Julia Scott\Desktop\Varian 202(
11	HNSCC-01-000	PET/CT HEA	19981201		HEADNECK	ORIGINAL\P	HFS	1\0\0\0\1\-0	3.2700	5.46875\5.46	222	C:\Users\Julia Scott\Desktop\Varian 202(
12	HNSCC-01-000	PET/CT HEA	19981201		HEADNECK	DERIVED\PF	HFS	0.000000\1.0	5.468750	1.417773\1.4	149	C:\Users\Julia Scott\Desktop\Varian 202(