In order to use this application correctly you need to know first how to use the flags.

For the very first time you run the application, you just need to execute:

```
python main.py -model True -csv True
```

This flag —model True will create the directory "dataOutput" and save the prediction model there, so we will be able to reuse it later to save valuable time.

After that, you will need to provide the input for the prediction, we suggest to use:

```
Aircraft id: XY-LOL

Enter date (yyyy-mm-dd): 2012-03-07
```

Now you may have to wait for around (2-3) minutes while the databases are processed and the prediction model is trained.

At the end, you will get an output that should look like something like this:

As you see, the accuracy of our model is around a 95%, the recall is perfect and the prediction for our query input is Maintenance IS required.

Now you can perform new queries saving a lot of time because the model has already been trained and the process over the data has also been done already.

To try a new query, use:

```
python main.py -reuse True
```

And now we suggest the input:

```
Aircraft id: XY-YCV

Enter date (yyyy-mm-dd): 2015-06-01
```

And very soon you will get an output that should look like:

```
Maintenance IS NOT required

------
Execution time:
runtime(s): 10.650334119796753

Query:
XY-YCV // 2015-06-01
```

This time the prediction was Maintenance IS NOT required and the total execution tyme was less than 11 seconds.

Finally, in case you may want to store the KPIs Matrix used to train the model, you can use the flag —csv when calling main.py and a .csv file will be saved in the "dataOutput" directory. For example you can call:

```
python main.py -model False -csv True
```

And while your prediction model won't be stored, the KPIs Matrix will be.