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**IT-309**  
**EXPERIMENT-3 REPORT**

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**Indian Institute of Information Technology, Vadodara**

**Group-1**

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## 0.1 BOOLEAN RETRIEVAL

- In this experiment, we tried to implement a Boolean retrieval system using python.
- We downloaded the .eml files of emails and tried to search a few queries.
- Language used is python 3.5+
- Library imported is "nltk" for stopwords

## 0.2 RESULTS

Results for some of the queries are shown below:

- Query1: "Calendar"

```
antew@ananya:~/boolean-retrieval-engine$ python3 query.py "calendar"
{'/home/antew/boolean-retrieval-engine/emails/Re. IT309 Class _ Doubt clearing session.eml'}
antew@ananya:~/boolean-retrieval-engine$
```

- Query2: "Institute"

```
antew@ananya:~/boolean-retrieval-engine$ python3 query.py "institute"
{'/home/antew/boolean-retrieval-engine/emails/Deferred _ Hostel Fees (Winter 2019-20 Semest
er) Payment to Sabar Authorities be Deferred till Intimated by Institute.eml', '/home/ante
w/boolean-retrieval-engine/emails/Office Order_ Mental Health Well Being Committee _ OO_ II
ITV_2019-20_66 dated 23.04.2020.eml'}
```

- Query3: "academic"

```
antew@ananya:~/boolean-retrieval-engine$ python3 query.py "academic"
{'/home/antew/boolean-retrieval-engine/emails/Welcome to the new semester.eml', '/home/antew
/boolean-retrieval-engine/emails/Re. IT309 Class _ Doubt clearing session.eml'}
```

- Query4: "lab"

```
antew@ananya:~/boolean-retrieval-engine$ python3 query.py "lab"  
{'/home/antew/boolean-retrieval-engine/emails/Re. CS308 Lab exercises updated.eml', '/home/a  
ntew/boolean-retrieval-engine/emails/Re. CS308 Lab 2.eml'}  
antew@ananya:~/boolean-retrieval-engine$ |
```

- Query5: "lab and handout"

```
antew@ananya:~/boolean-retrieval-engine$ python3 query.py "lab handout"  
{'/home/antew/boolean-retrieval-engine/emails/Re. CS308 Lab exercises updated.eml'}  
antew@ananya:~/boolean-retrieval-engine$ |
```