

```
In [1]: !pip install rdflib
```

```
Requirement already satisfied: rdflib in c:\programdata\anaconda3\lib\site-pack
ages (5.0.0)
Requirement already satisfied: pyparsing in c:\programdata\anaconda3\lib\site-p
ackages (from rdflib) (2.4.7)
Requirement already satisfied: isodate in c:\programdata\anaconda3\lib\site-pac
kages (from rdflib) (0.6.0)
Requirement already satisfied: six in c:\programdata\anaconda3\lib\site-package
s (from rdflib) (1.15.0)
```

```
In [7]: import rdflib
g = rdflib.Graph()
g.parse('C:\\Users\\tiwar\\Book1-xlsx.rdf')
```

```
Out[7]: <Graph identifier=Nb197f931739e4a5d83f8431939f377ef (<class 'rdflib.graph.Grap
h'>)>
```

```
In [10]: for s, p, o in g:
          print(s, p, o)
          break
```

```
http://nitp.ac.in/professor/AbdurRahmanQuaff (http://nitp.ac.in/professor/AbdurRahmanQuaff) http://dbpedia.org/ontology/AcademicSubject (http://dbpedia.org/ontology/AcademicSubject) Environmental Engineering II Material Science &Techn
ology Environmental Sanitation Air And Noise Pollution Ground Water En
gineering Fluid Mechanics & Hydraulics Environmental Chemistry & Microbio
logy Environmental Engineering-I
```

```
In [11]: print(len(g))
```

```
99
```

```
In [26]: from rdflib import URIRef

if(URIRef('http://nitp.ac.in/professor/AbdurRahmanQuaff'), None, None) in g:
    print(f'Triple exists!')
else:
    print(f'Triple does not exists!')
```

```
Triple exists!
```

```
In [48]: from rdflib.namespace import RDF, RDFS, OWL, FOAF, DCTERMS
        dbo = rdflib.Namespace("http://dbpedia.org/ontology/")
        dbr = rdflib.Namespace("http://dbpedia.org/resource/")
        properties1 = set()
        for s, p, o in g:
            properties1.add(p)

        from pprint import pprint
        pprint(properties1)

{rdflib.term.URIRef('http://dbpedia.org/ontology/AcademicConference'),
 rdflib.term.URIRef('http://dbpedia.org/ontology/AcademicJournal'),
 rdflib.term.URIRef('http://dbpedia.org/ontology/AcademicSubject'),
 rdflib.term.URIRef('http://dbpedia.org/ontology/education'),
 rdflib.term.URIRef('http://dbpedia.org/property/occupation'),
 rdflib.term.URIRef('http://purl.org/dc/terms/subject'),
 rdflib.term.URIRef('http://www.w3.org/1999/02/22-rdf-syntax-ns#type'),
 rdflib.term.URIRef('http://xmlns.com/foaf/0.1/mbox'),
 rdflib.term.URIRef('http://xmlns.com/foaf/0.1/name'),
 rdflib.term.URIRef('http://xmlns.com/foaf/0.1/topic_interest')}
```

```
In [49]: len(properties1)
```

```
Out[49]: 10
```

```
In [50]: properties2 = set()
        for p in g.predicates():
            properties2.add(p)

        pprint(properties2)

{rdflib.term.URIRef('http://dbpedia.org/ontology/AcademicConference'),
 rdflib.term.URIRef('http://dbpedia.org/ontology/AcademicJournal'),
 rdflib.term.URIRef('http://dbpedia.org/ontology/AcademicSubject'),
 rdflib.term.URIRef('http://dbpedia.org/ontology/education'),
 rdflib.term.URIRef('http://dbpedia.org/property/occupation'),
 rdflib.term.URIRef('http://purl.org/dc/terms/subject'),
 rdflib.term.URIRef('http://www.w3.org/1999/02/22-rdf-syntax-ns#type'),
 rdflib.term.URIRef('http://xmlns.com/foaf/0.1/mbox'),
 rdflib.term.URIRef('http://xmlns.com/foaf/0.1/name'),
 rdflib.term.URIRef('http://xmlns.com/foaf/0.1/topic_interest')}
```

```
In [52]: for s, o in g.subject_objects(dbo.AcademicJournal):
          print(o.value, o.language, o.datatype)
```

A. R. Quaff, Vibha.J.A., Richa.P., Saumyen Guha, C.S.Harendranath (2008) , Enhanced Granulation Using Natural Polymers in UASB Reactors Treating Domestic Wastewater, International Water work Association (IWWA) Conference . Vienna, Austria, 7-12 Septemb - 2008, .

A. R.Quaff, Vibha.J.A., Saumyen Guha, C.S.Harendranath, Stability of Granules in UASB Reactor Testing Low Strength Waste Water, International conference . Bengal Engineering & Science University, Shibpur India. , 11-14 Jan - 2007, .

None None

1. Ajit Kumar, Nonlinear AVR for power system stabilisers robust phase compensation design. IET Generation, Transmission & Distribution. 14(21), 11 - 2020, 4927-4935, 10.1049/iet-gtd.2020.0092..

Ajit Kumar, On the Rotor Angle and Voltage Dynamics Decoupling in Synchronous Generators with Nonlinear AVR. Electric Power Components and Systems. 47(16) - 2019, 1514-1523, DOI: 10.1080/15325008.2019.1666180.

Ajit Kumar, Power System Stabilizers Design for Multimachine Power Systems U

```
In [59]: journal = URIRef('http://dbpedia.org/ontology/AcademicJournal')
for o in g.objects(URIRef('http://nitp.ac.in/professor/AbdurRahmanQuaff'),dbo.Aca
print(o)
```

1. S. Venkatesh, A.R.Quaff, N. D. Pandey (2014) , “The use of ozonation and biological processes for treatment of textile azo dye wastewater”, National Conference on “Water Resources Management – Achievements & Challenges (WRM-AC 2014) . Jamia Millia Islamia University, New Delhi, India, ,March 22nd - 2014, .

2.Smita Venkatesh, A R Quaff and N D Pandey , Treatment and Reuse of Dye Wastewater from the Textile Industry: A Review of Advanced Treatment Technologies, International Conference IWW-2013 Efficient Water management: Challenges and Opportunities. Vigyan Bhawan Delhi, India.,8-14 April - 2013,

Smita Venkatesh, A R Quaff and N D Pandey , Treatment and Reuse of Dye Wastewater from the Textile Industry: A Review of Advanced Treatment Technologies, International Conference IWW-2013 Efficient Water management: Challenges and Opportunities. Vigyan Bhawan Delhi, India.,8-14 April - 2013, .

A R Quaff and Bhumika Singh , Health Effect of Air Pollution: A case study of Allahabad City, India, 3rd International Conference on Environmental Pollution and . Toronto, Canada,July 15-17 - 2013,

A R Quaff and Bhumika Singh , Health Effect of Air Pollution: A case study of Allahabad City, India, 3rd International Conference on Environmental Pollution and . Toronto, Canada,July 15-17 - 2013,

A. R. Quaff, Vibha.J.A., Richa.P., Saumyen Guha, C.S.Harendranath (2008) , Enhanced Granulation Using Natural Polymers in UASB Reactors Treating Domestic Wastewater, International Water work Association (IWWA) Conference . Vienna, Austria,7-12 Septemb - 2008, .

A. R.Quaff, Vibha.J.A., Saumyen Guha, C.S.Harendranath, Stability of Granules in UASB Reactor Testing Low Strength Waste Water, International conference . Bengal Engineering & Science University, Shibpur India. ,11-14 Jan - 2007, .

In []: