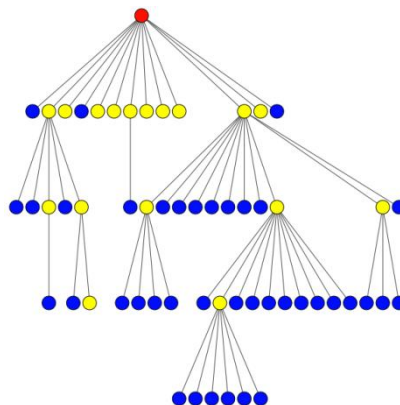**SUMMARY**

1. Installed Python 3.6 and Anaconda on Ubuntu 16.04.

   Installation of igraph package with conda run.

2. Class which process folders/files of specified directory.

   Tested with different base directories. Worked well for self created folders/files and small directories.

   Directory:

   /usr - OSError: [Errno 40] Too many levels of symbolic links

   /sys - PermissionError: [Errno 13] Permission denied

   /home/agnieszka

   Attributes are added by calling vertices with their names (paths).

   Size   os.stat(/path).st_size

   Last change   time.ctime(os.path.getmtime(/path))

3. Class responsible for graph's database handling

   Table has 3 columns. Vertex name, size and last change time. Last two columns are equal null for folders. As a table name base directory is used.

Table: _home_agnieszka

	name	size	lastChange
	Filter	Filter	Filter
1	/home/agnieszka	NULL	NULL
2	/home/agnieszka/test.c	72	Sat Nov 11 14:13:47 2017
3	/home/agnieszka/project	NULL	NULL
4	/home/agnieszka/project/test2.py	951	Tue Jan 30 11:37:53 2018
5	/home/agnieszka/project/test.py	4663	Tue Jan 30 21:03:37 2018
6	/home/agnieszka/project/desc	NULL	NULL
7	/home/agnieszka/project/desc/desc.odt	9873	Tue Jan 30 13:23:30 2018
8	/home/agnieszka/project/test.db	53248	Tue Jan 30 21:01:13 2018
9	/home/agnieszka/project/help	NULL	NULL
10	/home/agnieszka/project/help/read.txt	20	Mon Jan 29 17:41:49 2018
11	/home/agnieszka/project/help/exc	NULL	NULL
12	/home/agnieszka/Public	NULL	NULL
13	/home/agnieszka/test	8608	Sat Nov 11 14:14:38 2017

4. Method of searching for files shows:
   - files which obtain given string itself
   - files which have a given string in their path

```
('/home/agnieszka/Cprog/array1.c', 520, 'Thu Nov 16 09:53:21 2017')
('/home/agnieszka/Cprog/array1', 8776, 'Thu Nov 16 09:53:28 2017')
('/home/agnieszka/Cprog/3w_basic/arrays/ex34', 8776, 'Wed Nov 22 13:11:07 2017')
('/home/agnieszka/Cprog/3w_basic/arrays/ex34.c', 569, 'Wed Nov 22 13:11:05 2017')
('/home/agnieszka/Cprog/3w_basic/arrays/ex56.c', 535, 'Wed Nov 22 14:56:07 2017')
('/home/agnieszka/Cprog/3w_basic/arrays/ex1_2.c', 493, 'Wed Nov 22 11:33:59 2017')
('/home/agnieszka/Cprog/3w_basic/arrays/ex56', 8696, 'Wed Nov 22 14:55:54 2017')
('/home/agnieszka/Cprog/3w_basic/arrays/ex', 8784, 'Wed Nov 22 11:21:49 2017')
```