Assignment: 1

XQueries:

1.) Retrieve the usernames and the number of posts for each user:

```
for $user in //user return concat("Username: ", $user/@username, ", Number of Posts: ", count($user/posts/post), "
")
```

```
1 Username: john doe, Number of Posts: 3
 3 Username: , Number of Posts: 0
 5 Username: , Number of Posts: 0
 7 Username: jane smith, Number of Posts: 2
 9 Username: , Number of Posts: 0
10
11 Username: , Number of Posts: 0
12
13 Username: , Number of Posts: 0
14
15 Username: ashay shah, Number of Posts: 2
16
17 Username: , Number of Posts: 0
18
19 Username: , Number of Posts: 0
20
21 Username: , Number of Posts: 0
22
23 Username: prince patel, Number of Posts: 2
24
25 Username: , Number of Posts: 0
26
27 Username: , Number of Posts: 0
29 Username: yash rathore, Number of Posts: 2
30
31 Username: , Number of Posts: 0
33 Username: ravi v, Number of Posts: 2
35 Username: , Number of Posts: 0
```

```
35 Username: , Number of Posts: 0
37 Username: , Number of Posts: 0
38
39 Username: vijay_yadav, Number of Posts: 2
41 Username: , Number of Posts: 0
42
43 Username: , Number of Posts: 0
45 Username: kuldeep, Number of Posts: 2
46
47 Username: , Number of Posts: 0
48
49 Username: , Number of Posts: 0
50
51 Username: tarun, Number of Posts: 2
52
53 Username: , Number of Posts: 0
54
55 Username: , Number of Posts: 0
56
57 Username: , Number of Posts: 0
58
59 Username: deepak, Number of Posts: 2
60
61 Username: , Number of Posts: 0
63 Username: , Number of Posts: 0
64
```

The output is a sequence of strings, where each string contains the username and the number of posts for a user, separated by a comma. The
 character sequence is used to add a new line after each string.

2.) Get the usernames of all users who have at least one friend:

for \$user in //user[friends/user] return \$user/@username

```
john_doe
jane_smith
ashay_shah
prince_patel
yash_rathore
ravi_v
vijay_yadav
kuldeep
tarun
deepak
11
```

3.) Return the first name, last name, and email of the user with id "u002"

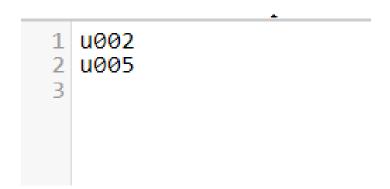
The output is in xml format.

We are asking the user information in xml format.

XPath:

1.) Select the id of all users who have the occupation "Therapist"

/social_networking_website/user[profile/@occupation="Therapist"]/@id



2.) Select the captions of all images and videos in the third user's posts

/social_networking_website/user[3]/posts/post/*[self::image or self::video]/@caption

```
1 At the beach
2 My dog doing tricks
```

3.) Select all the posts posted by user id "u002".

//user[@id="u002"]/posts