

Assignment 2

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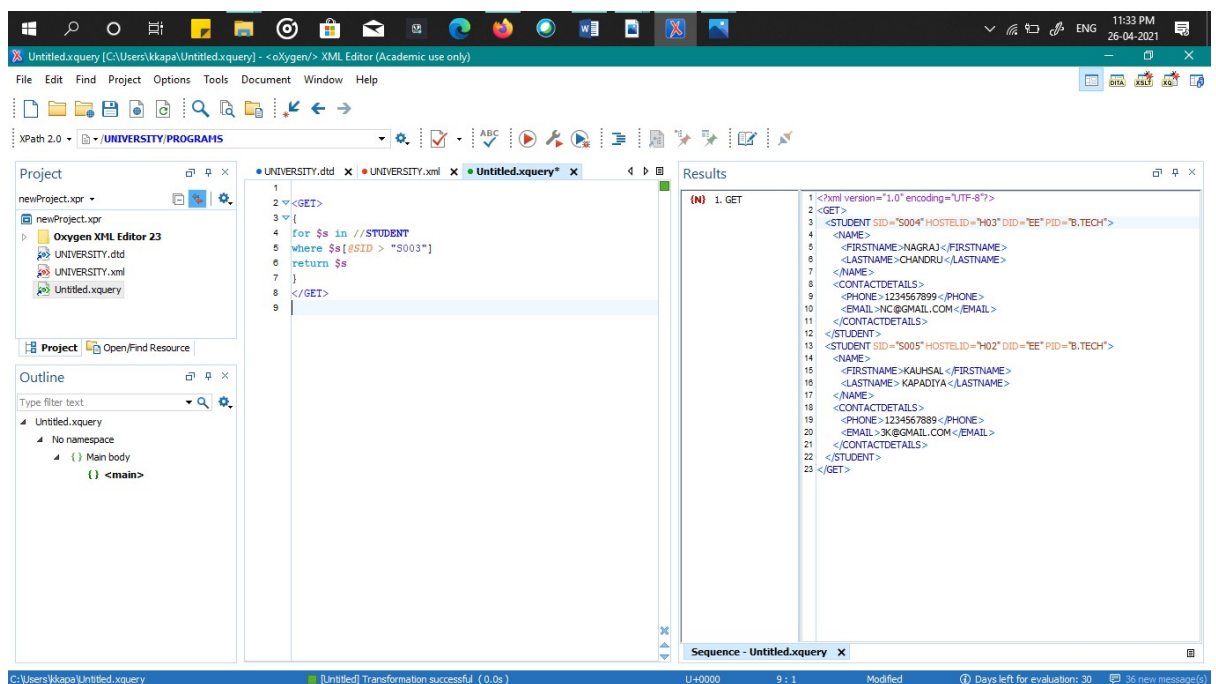
Cs20m029

Group 10

Xquery

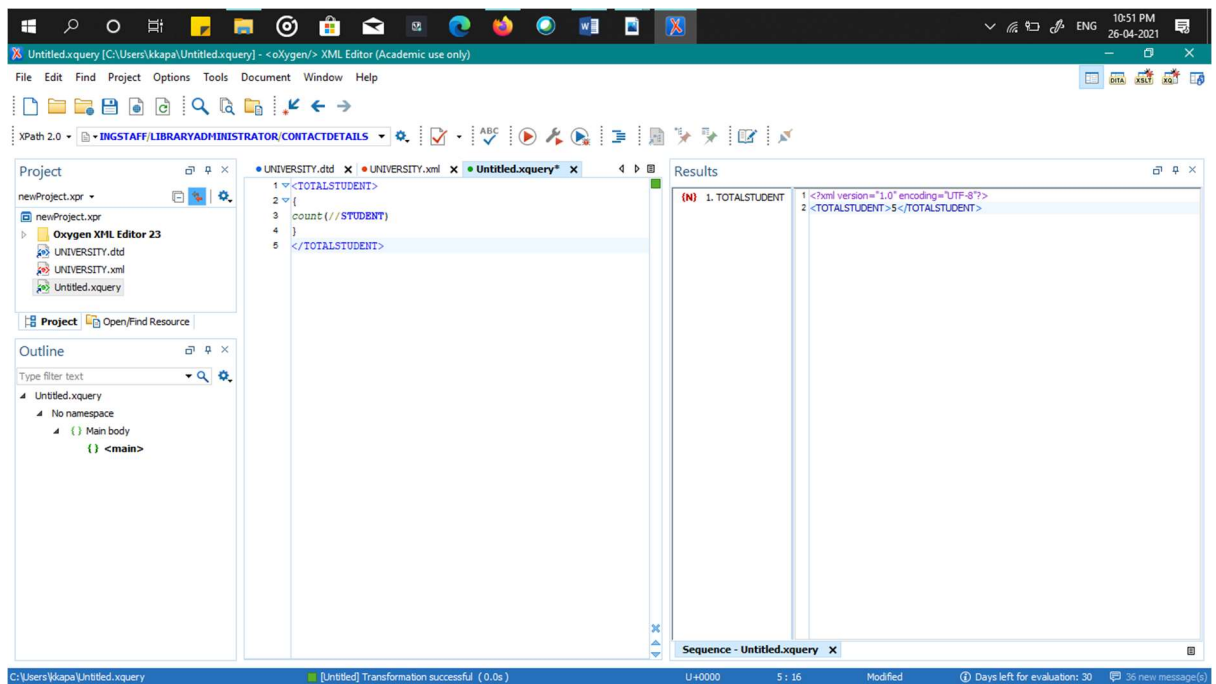
- 1) Find the students having student with id > s003

```
<GET>
{
  for $s in //STUDENT
  where $s[@SID > "S003"]
  return $s
}
</GET>
```



- 2) Find the total no of stdents ‘

```
<TOTALSTUDENT>
{
  count(//STUDENT)
}
</TOTALSTUDENT>
```

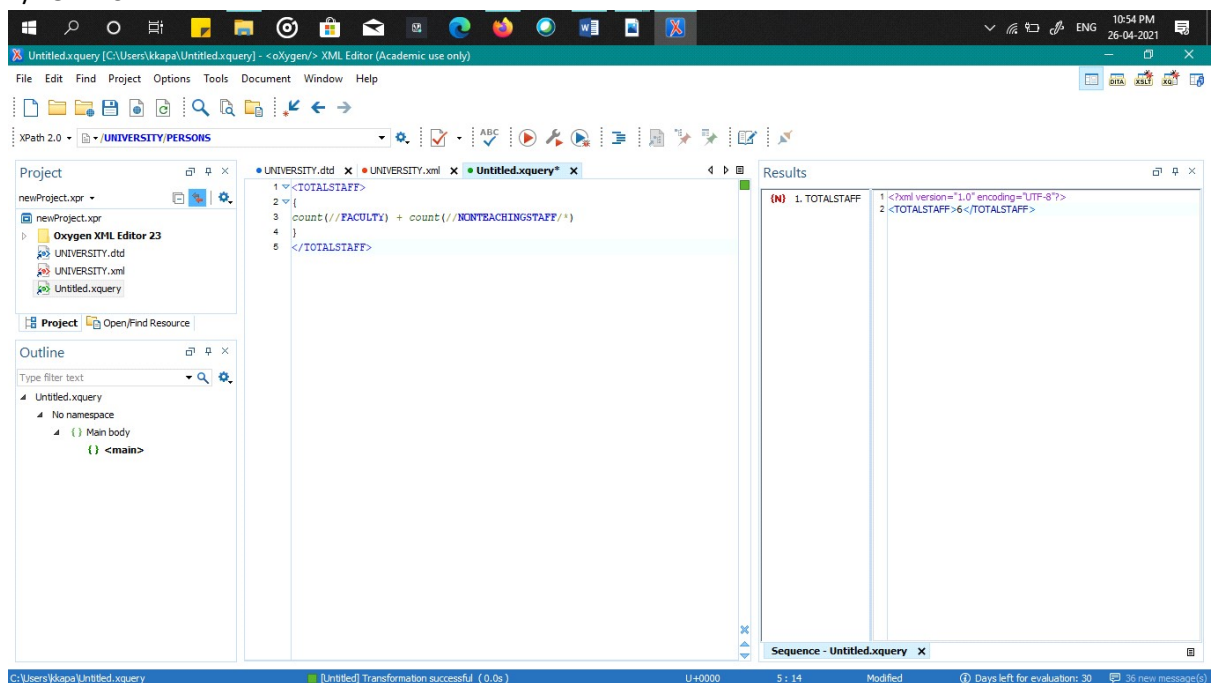


3) Find the total no of staff ‘

```

<TOTALSTAFF>
{
count(//FACULTY) + count(//NONTTEACHINGSTAFF/*)
}
</TOTALSTAFF>

```

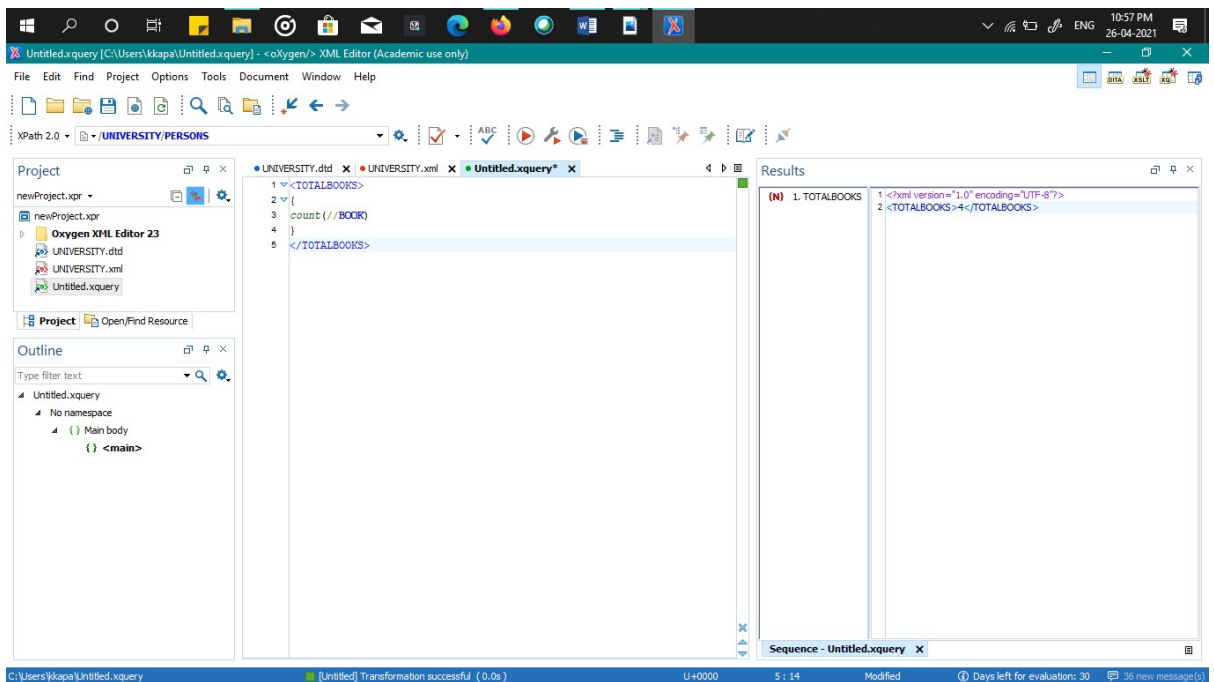


4) Find the total no of books

```

<TOTALBOOKS>
{
count(//BOOK)
}
</TOTALBOOKS>

```

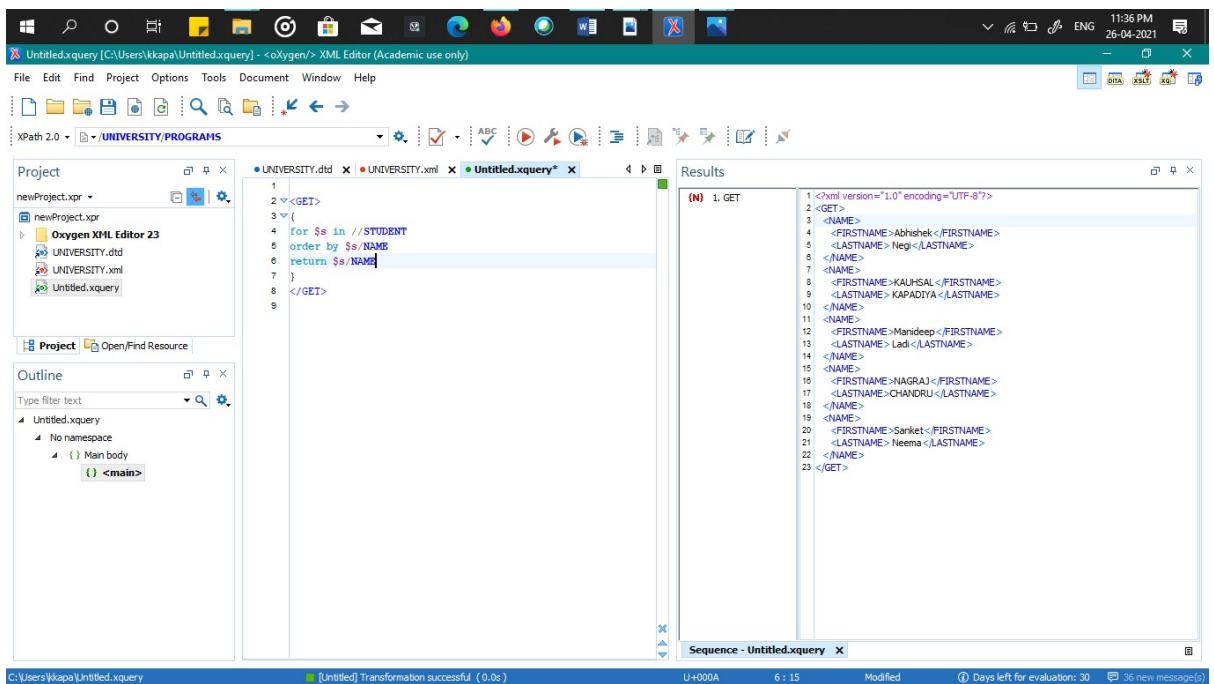


5) Get list of student name in ascending order

```

<GET>
{
for $s in //STUDENT
order by $s/NAME
return $s/NAME
}
</GET>

```

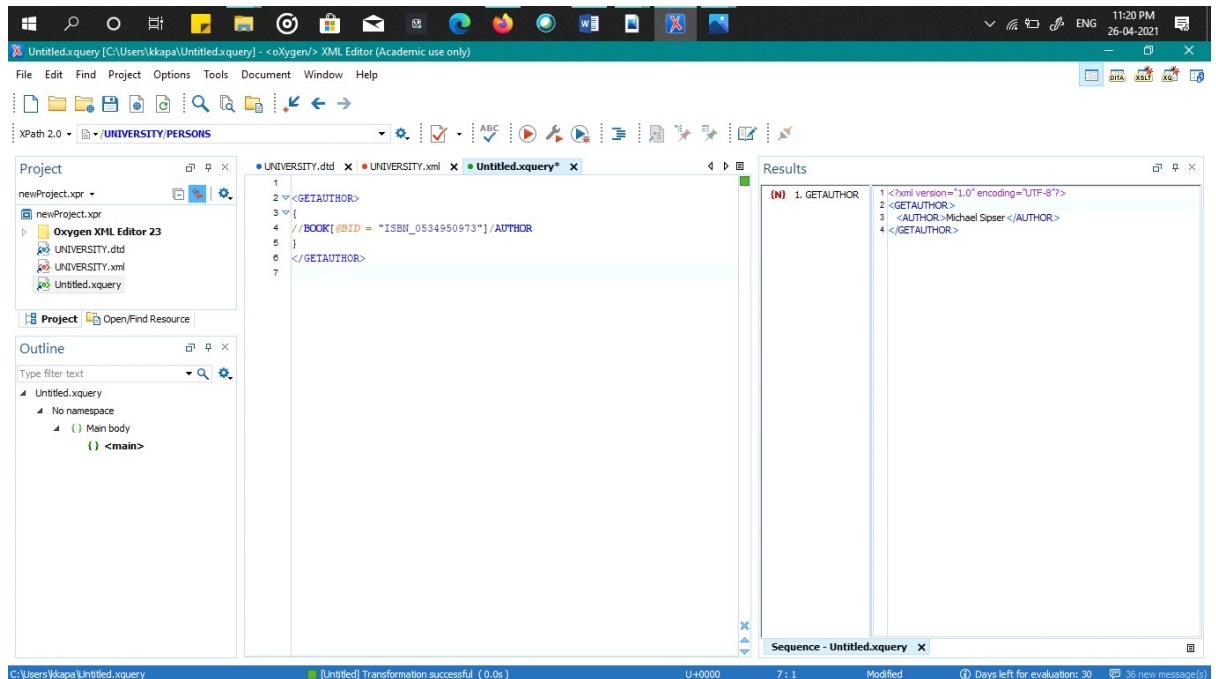


6) Find the author for the book id ISBN_0534950973

```

<GETAUTHOR>
{
//BOOK[@BID = "ISBN_0534950973"]/AUTHOR
}
</GETAUTHOR>

```

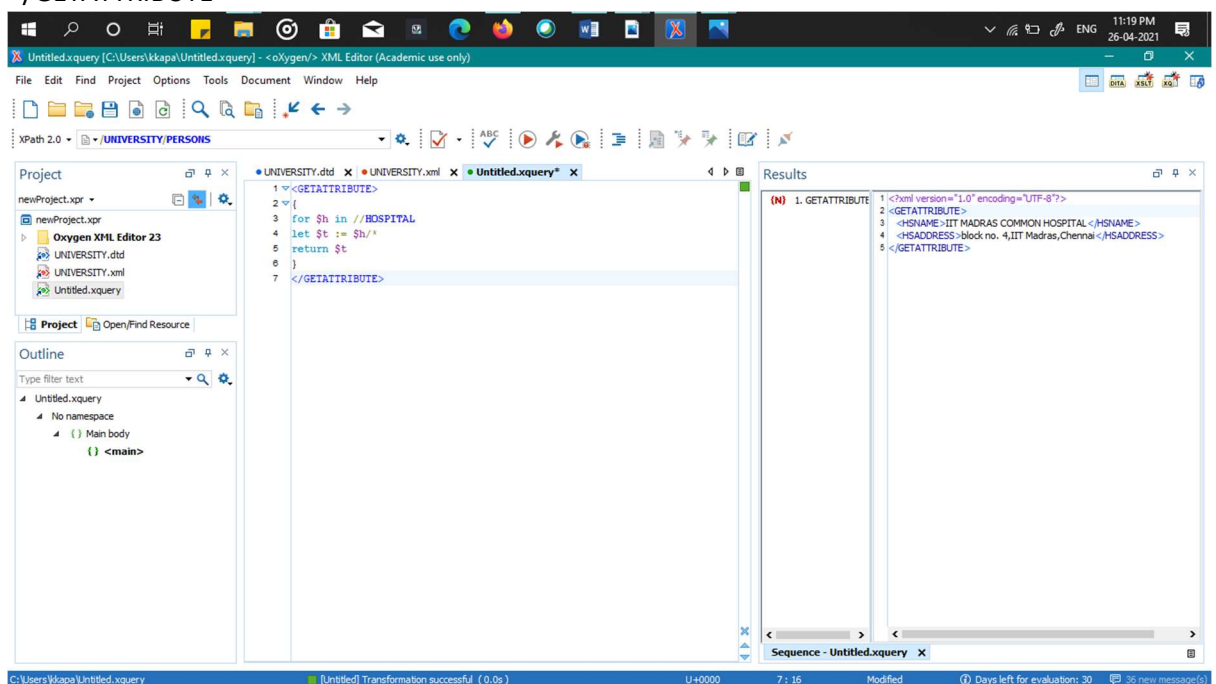


- 7) get all the attributes of hospital

```

<GETATTRIBUTE>
{
for $h in //HOSPITAL
let $t := $h/*
return $t
}
</GETATTRIBUTE>

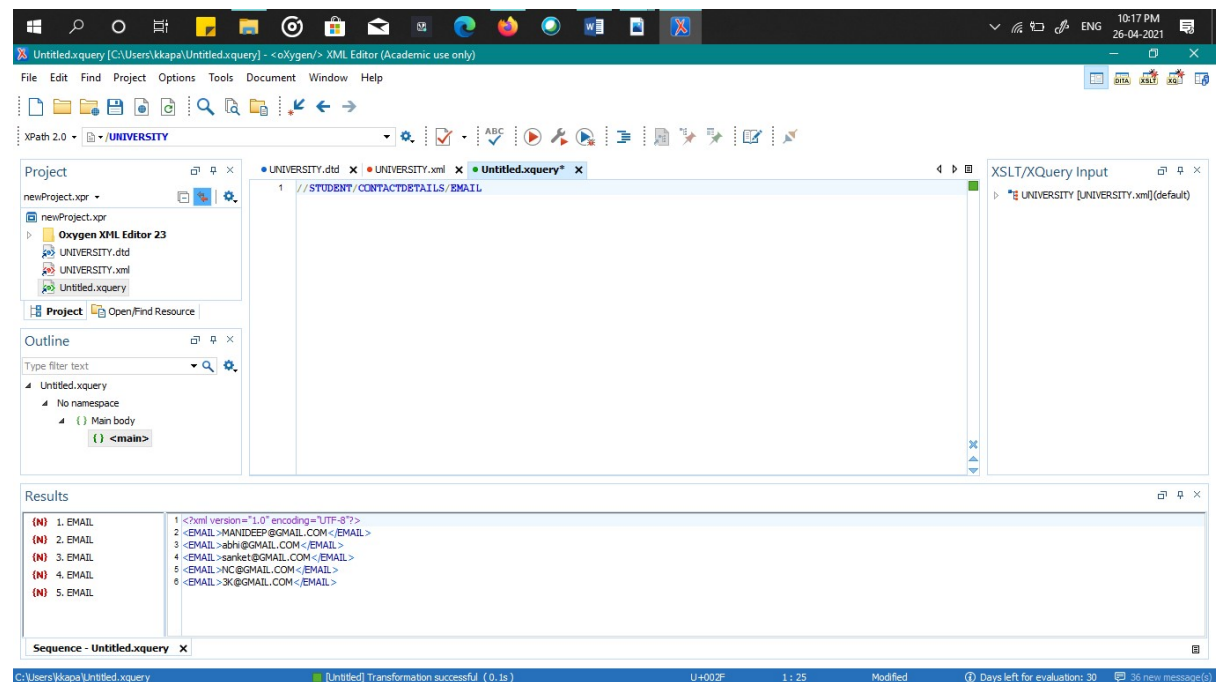
```



xpath

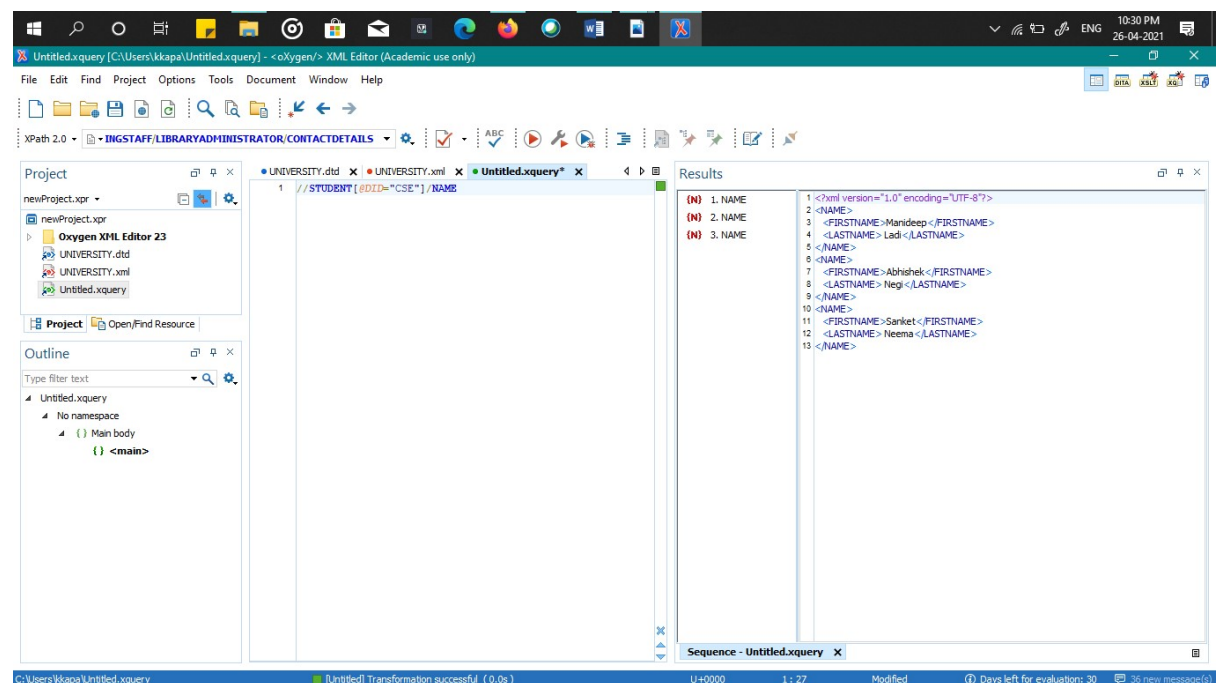
- 1) print the email id of the cse students ‘

//STUDENT/CONTACTDETAILS/EMAIL



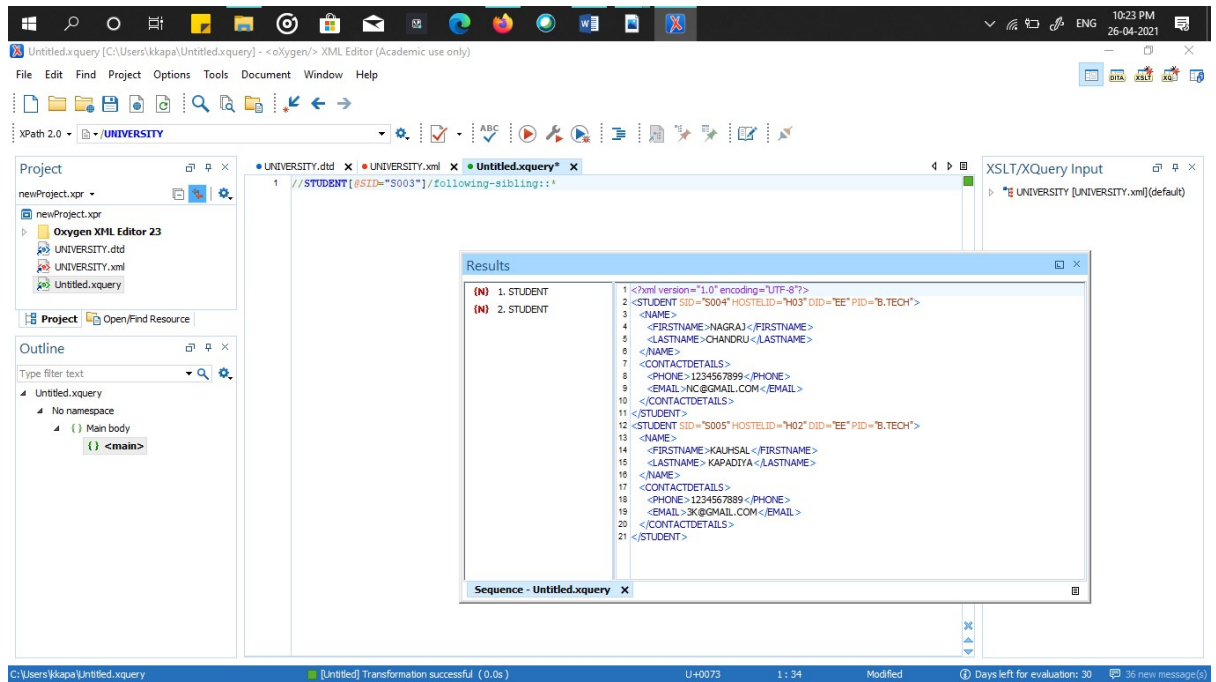
- 2) print the name of students who are in CSE department ‘

//STUDENT[@DID="CSE"]/NAME



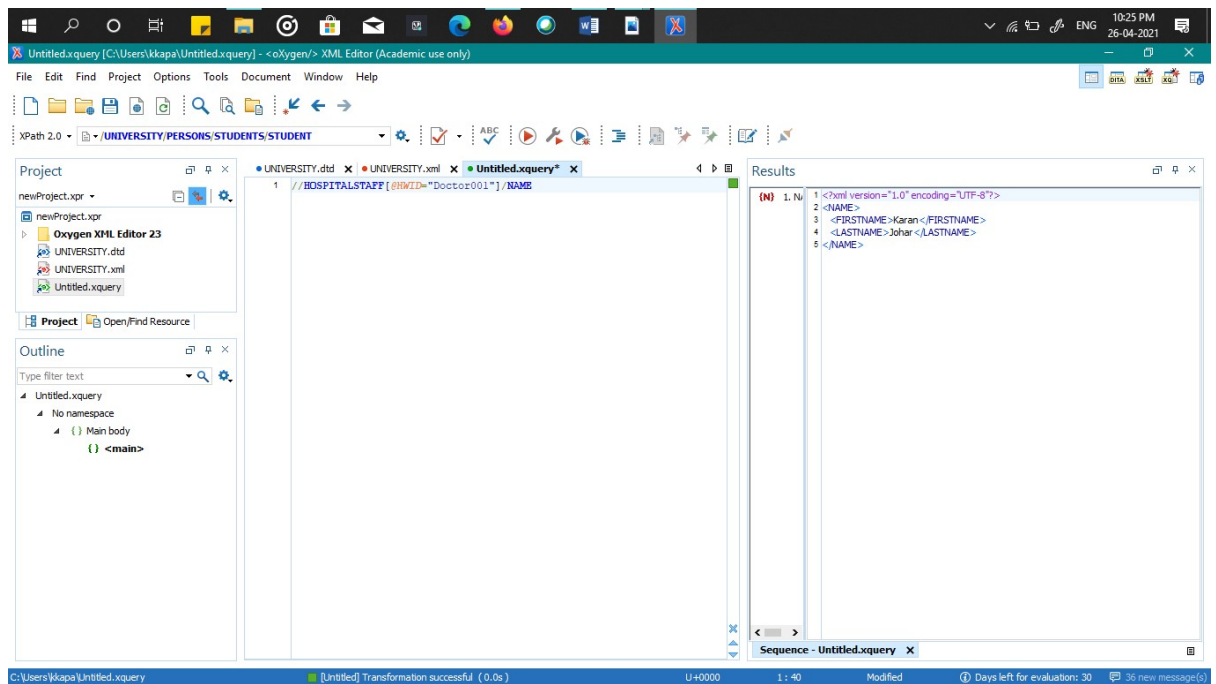
- 3) select the all the FOLLOWING siblings of the student id s003 ‘

//STUDENT[@SID="S003"]/following-sibling::*



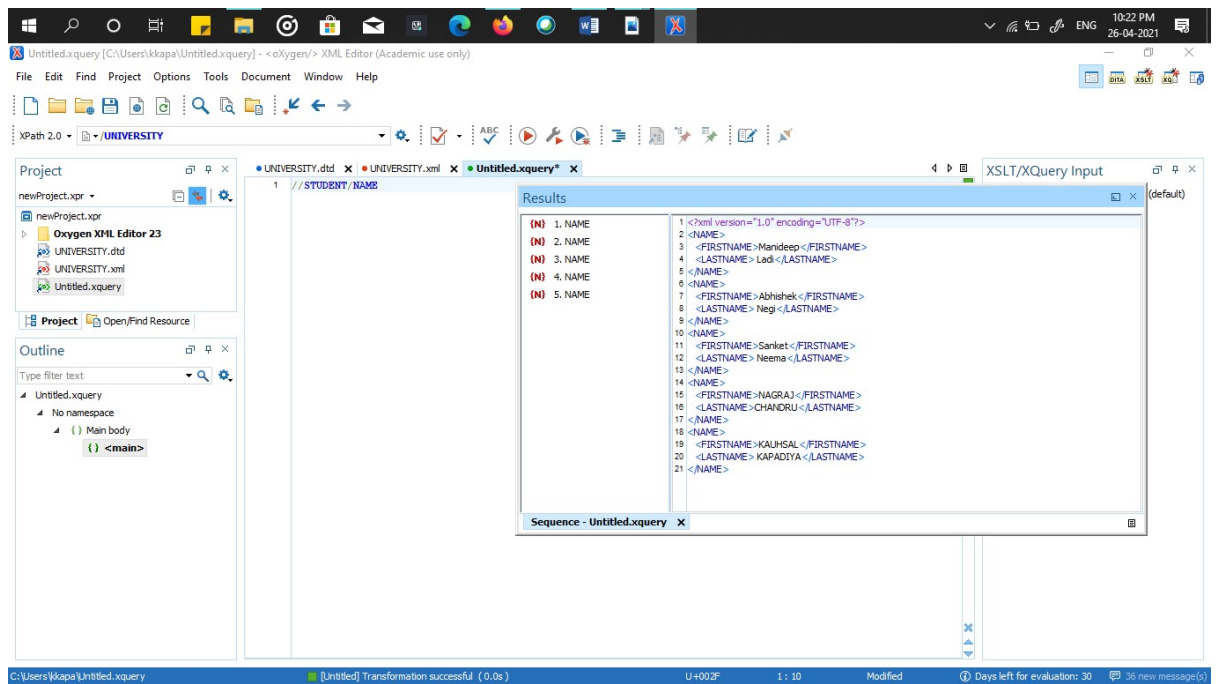
4) print the name of the hospital staff with HID Doctor001 ‘

//HOSPITALSTAFF[@HWID="Doctor001"]/NAME



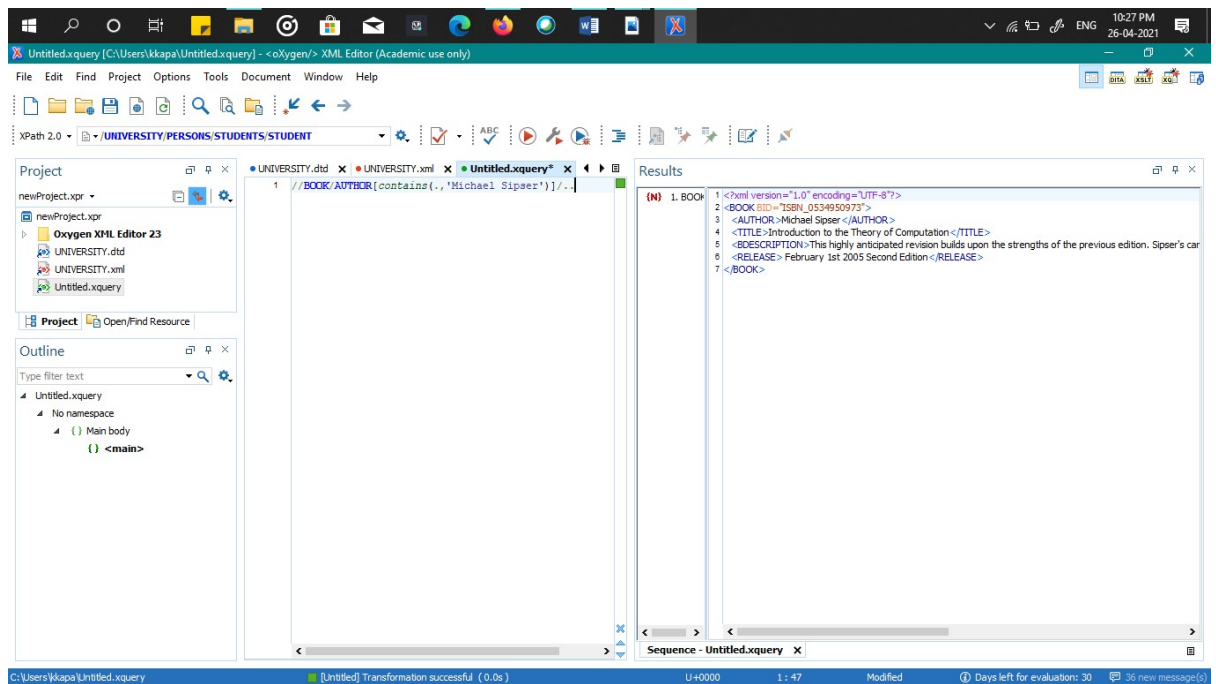
5) print the names of all students ‘

//STUDENT/NAME



6) print the DETAILS of the book which contains one of its author as Michael Sipser ‘

//BOOK/AUTHOR[contains(.,'Michael Sipser')]/..



7) print the names of all non teaching staff ‘

//NONTEACHINGSTAFF/..//NAME

Untitled.xquery [C:\Users\kkapa\Untitled.xquery] - oXygen/> XML Editor (Academic use only)

File Edit Find Project Options Tools Document Window Help

XPath 2.0 - >INGSTAFF/LIBRARYADMINISTRATOR/CONTACTDETAILS

Project

- newProject.xpr
 - newProject.xpr
 - Oxygen XML Editor 23
 - UNIVERSITY.dtd
 - UNIVERSITY.xml
 - Untitled.xquery

Outline

Type filter text

- Untitled.xquery
 - No namespace
 - () Main body
 - <main>

Results

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <NAME>
3 <FIRSTNAME>Suraj</FIRSTNAME>
4 <LASTNAME>Sharma</LASTNAME>
5 </NAME>
6 <NAME>
7 <FIRSTNAME>Kamal</FIRSTNAME>
8 <LASTNAME>Verna</LASTNAME>
9 </NAME>
10 <NAME>
11 <FIRSTNAME>Karan</FIRSTNAME>
12 <LASTNAME>Johar</LASTNAME>
13 </NAME>
14 <NAME>
15 <FIRSTNAME>Alia</FIRSTNAME>
16 <LASTNAME>Bhatt</LASTNAME>
17 </NAME>
```

Sequence - Untitled.xquery X

C:\Users\kkapa\Untitled.xquery [Untitled] Transformation successful (0.0s) U+0000 1:26 Modified Days left for evaluation: 30 36 new messages