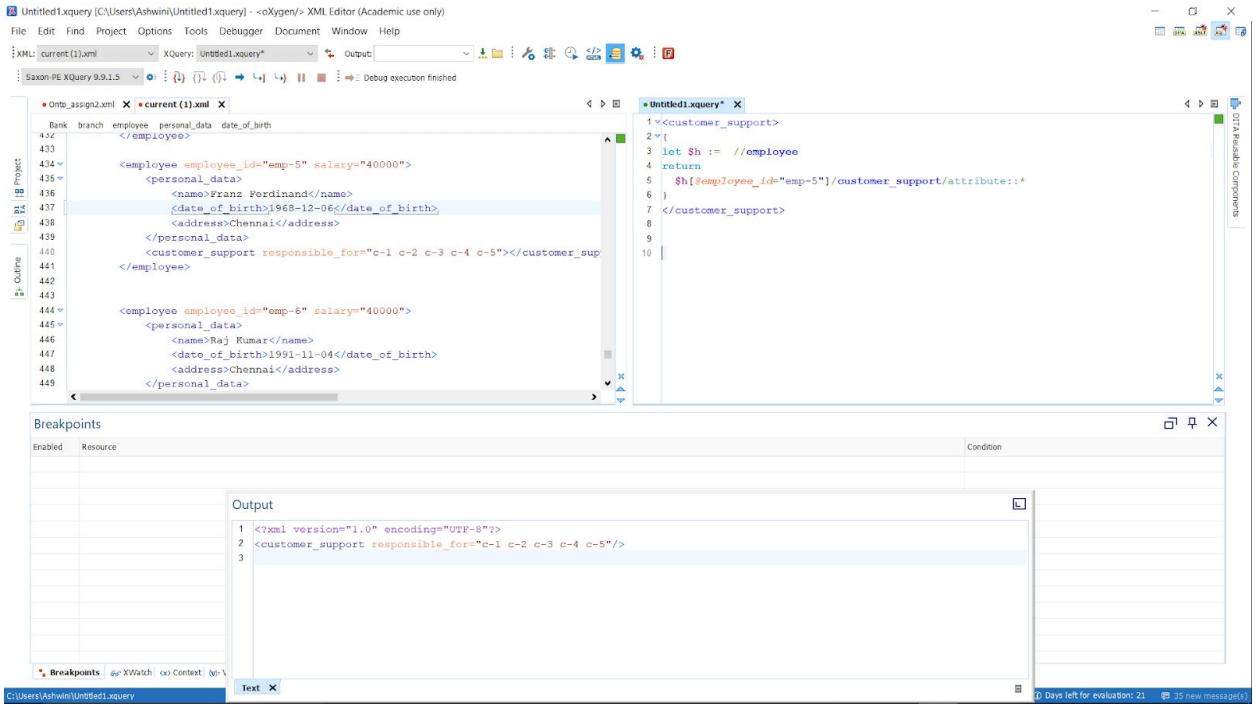
Ontology **Ashwini S Tagadghar**

Assignment-2 **CS19M014**

XQUERY:

Query1:Find the customer id of whose employee id is 5, is responsible for their customer support.

```
<customer_support>
{
let $h :=  //employee
return
  $h[@employee_id="emp-5"]/customer_support/attribute::*
}
</customer_support>
```



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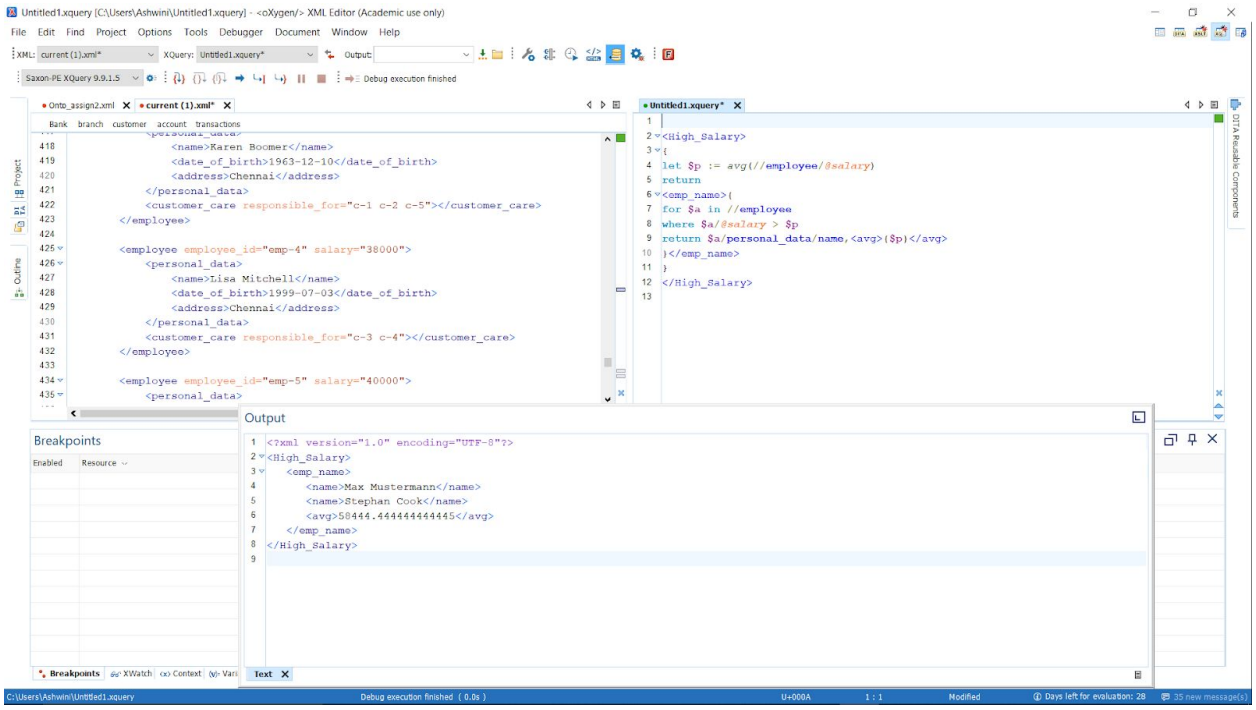
Assignment-2 **CS19M014**

Query2:Find the employee name whose salary is greater than the average salary

```
<High_Salary>
{
let $p := avg(//employee/@salary)
return
<emp_name>{
for $a in //employee
where $a/@salary > $p
return $a/personal_data/name,<avg>{$p}</avg>
}</emp_name>
}
</High_Salary>
```



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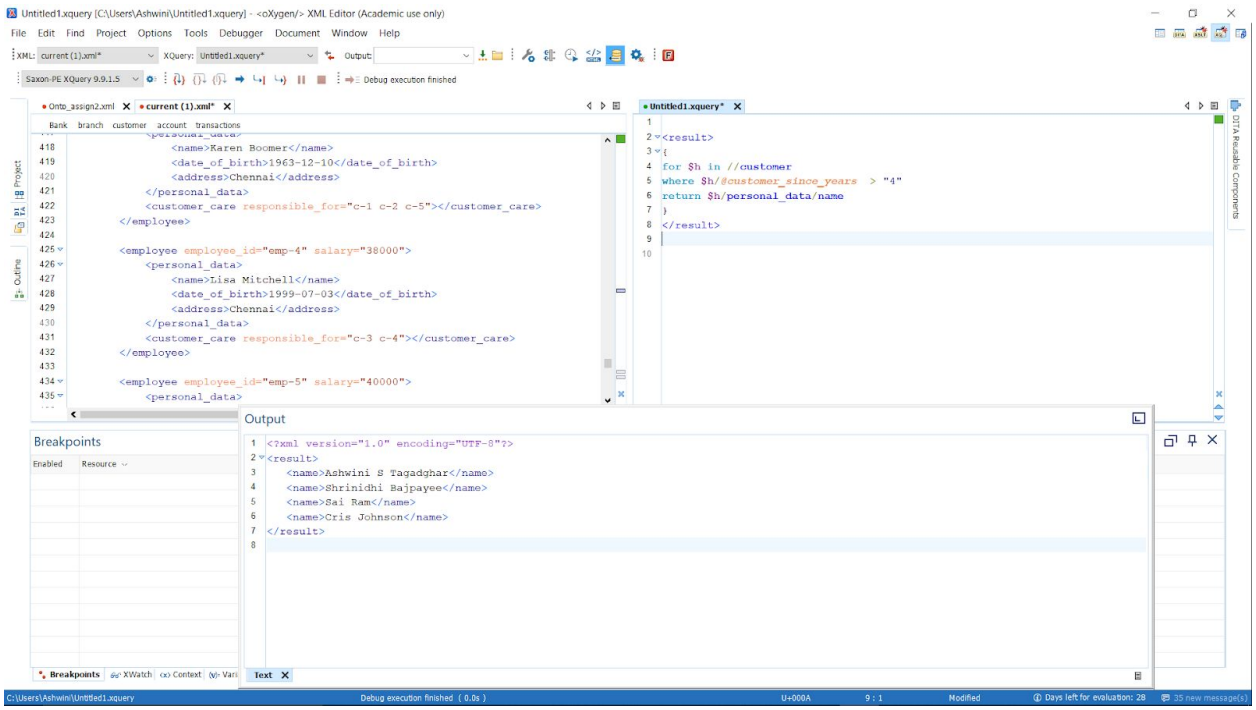
Assignment-2 **CS19M014**

Query3:Name of the customers who are customer since more than 4 years

```
<result>
{
for $h in //customer
where $h/@customer_since_years  > "4"
return $h/personal_data/name
}
</result>
```



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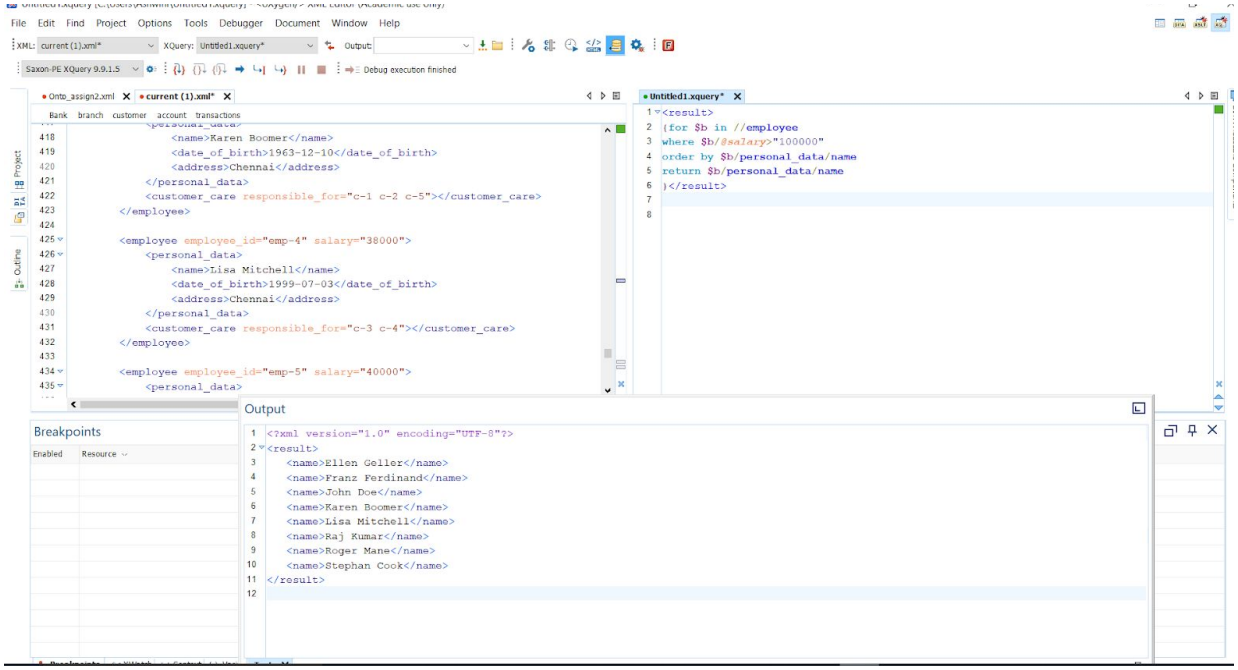
Assignment-2 **CS19M014**

Query4:Name of the employees whose salary is more than 100000

```
<result>
{for $b in //employee
where $b/@salary>"100000"
order by $b/personal_data/name
return $b/personal_data/name
}</result>
```



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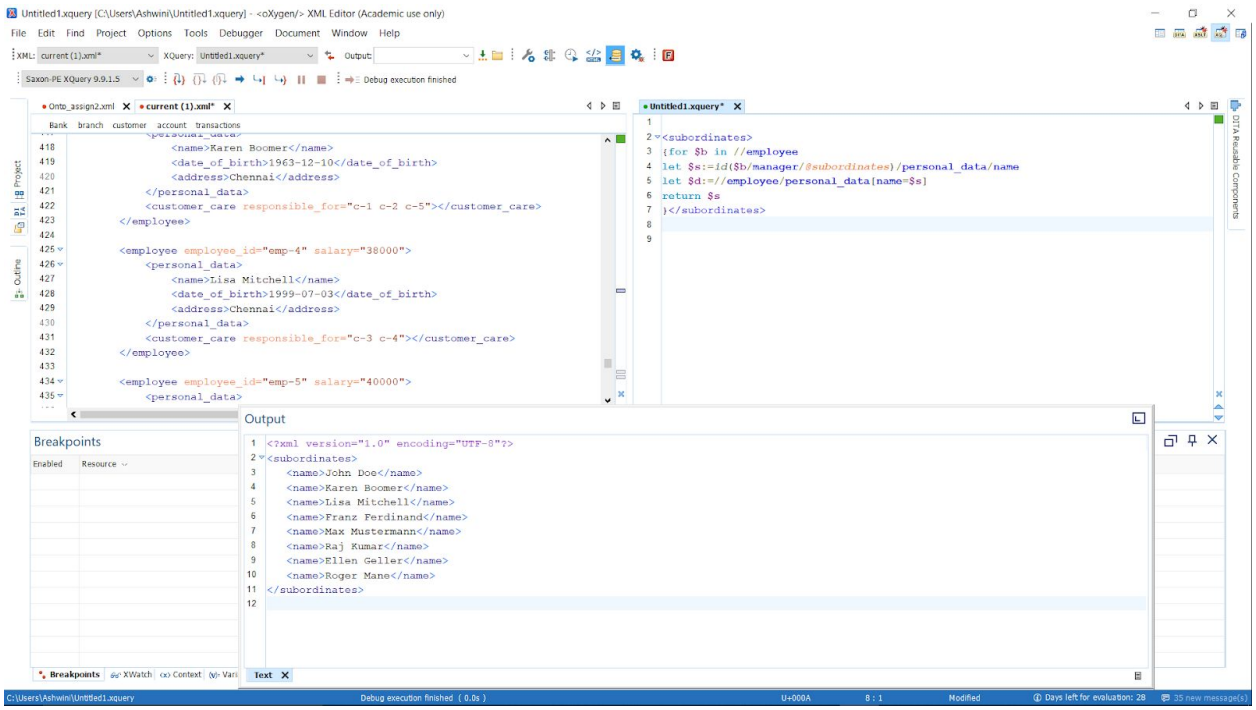
Assignment-2 **CS19M014**

Query5:Name of the employees who are subordinates of managers

```
<subordinates>
{for $b in //employee
let $s:=id($b/manager/@subordinates)/personal_data/name
let $d:=//employee/personal_data[name=$s]
return $s
}</subordinates>
```



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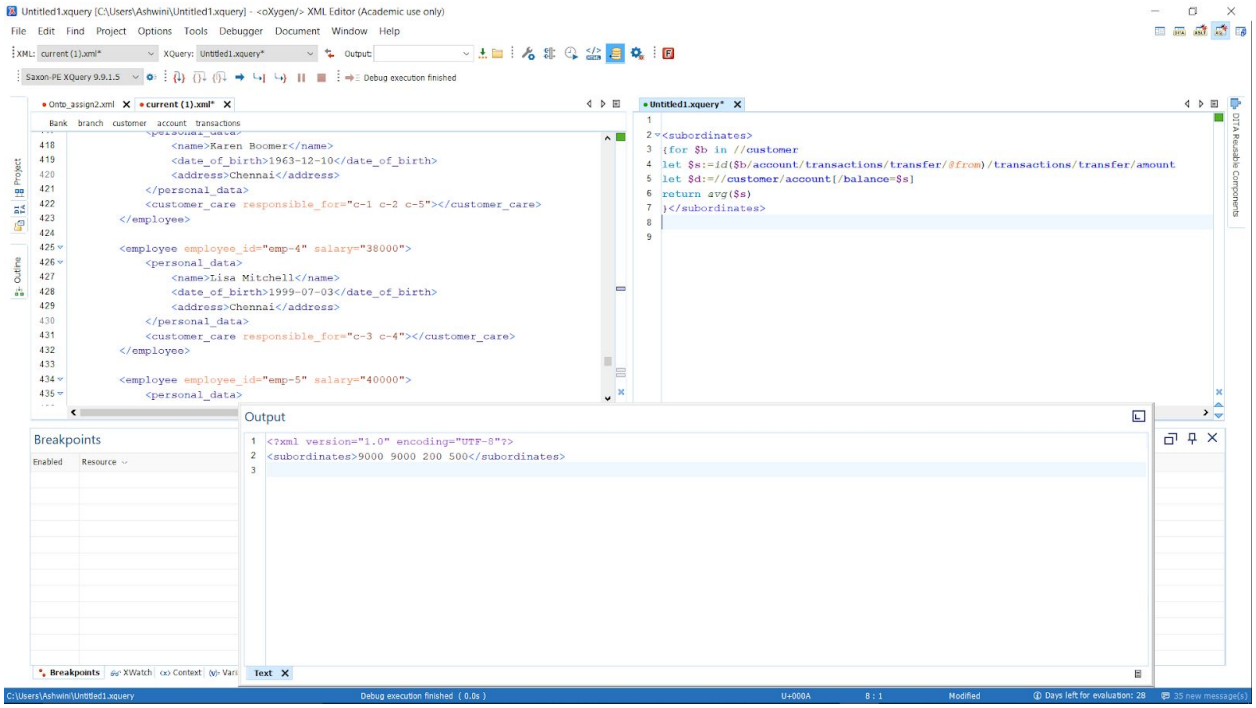
Query6: Average Amount transferred to the accounts from customers

```
<subordinates>
{for $b in //customer
let $s:=id($b/account/transactions/transfer/@from)/transactions/transfer/amount
let $d:=//customer/account[/balance=$s]
return avg($s)
}</subordinates>
```



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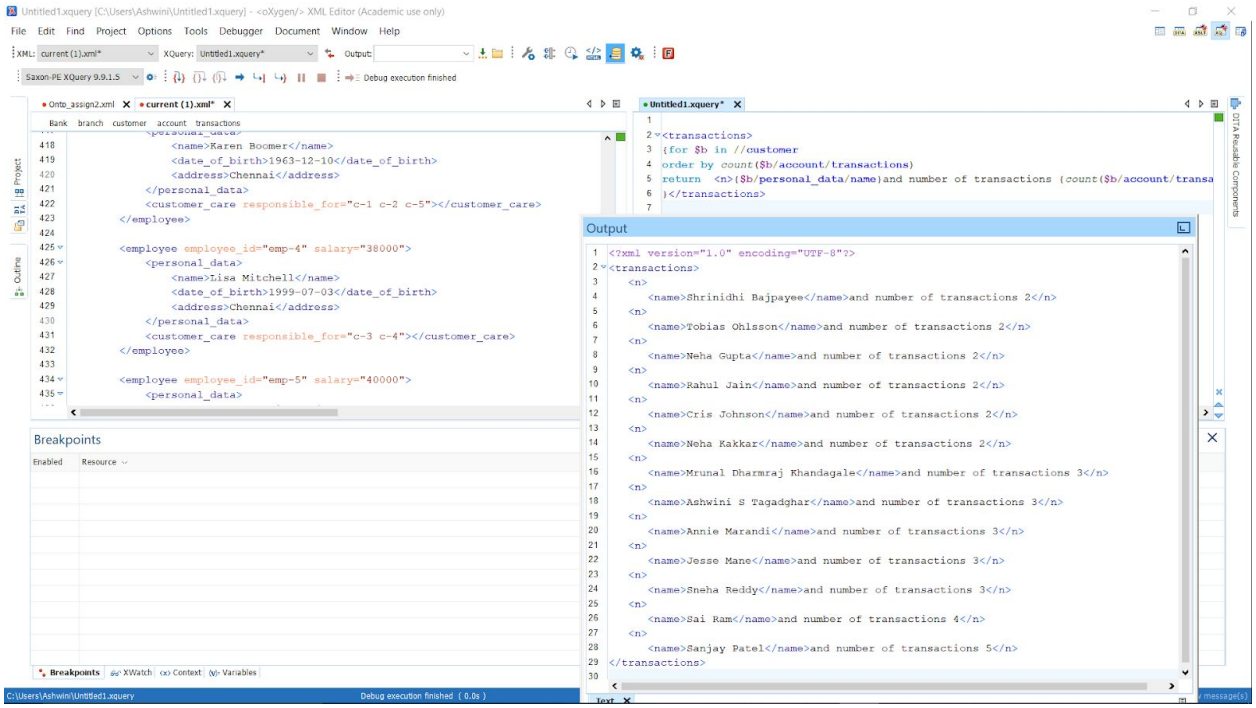
Assignment-2 **CS19M014**

Query7:Print the names of the customer with increasing order of the number of transactions made by each customer

<transactions>
{for $b in //customer
order by count($b/account/transactions)
return <n>{$b/personal_data/name}and number of transactions
{count($b/account/transactions)}</n>
}</transactions>



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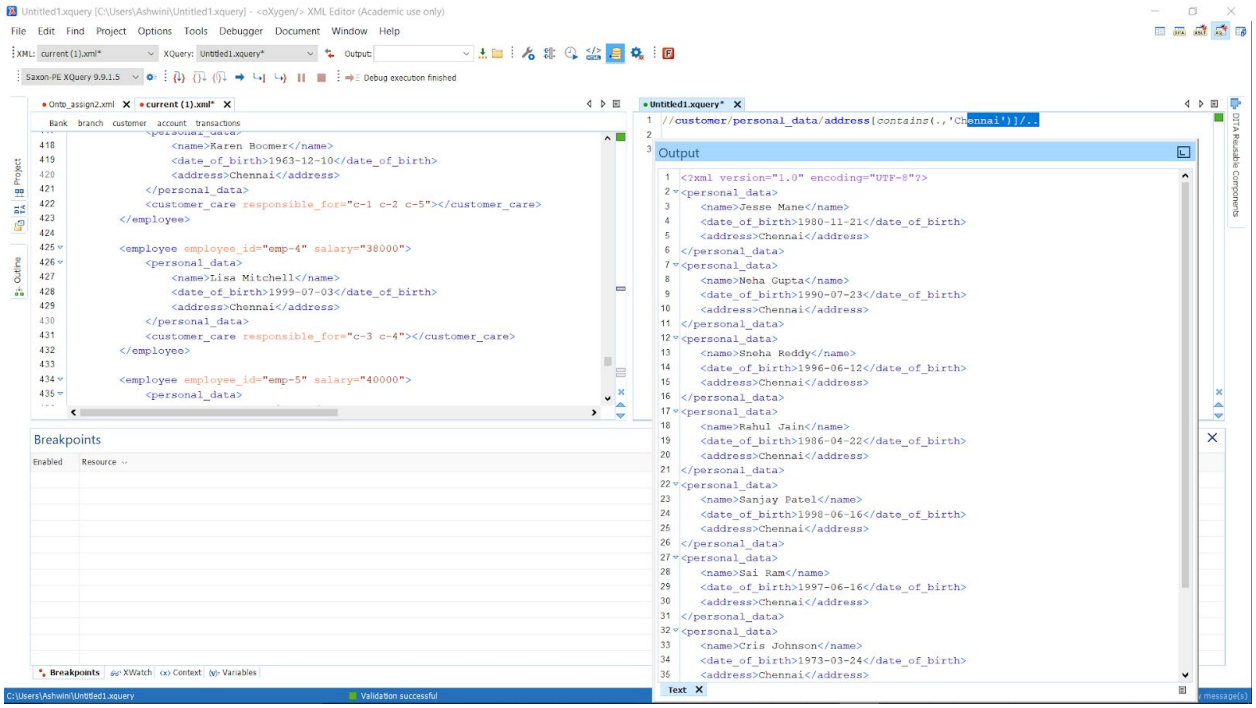
Assignment-2 **CS19M014**

XPATH

XPath1: Print the personal details of the customer who stays in Chennai

//customer/personal_data/address[contains(.,'Chennai')]/..



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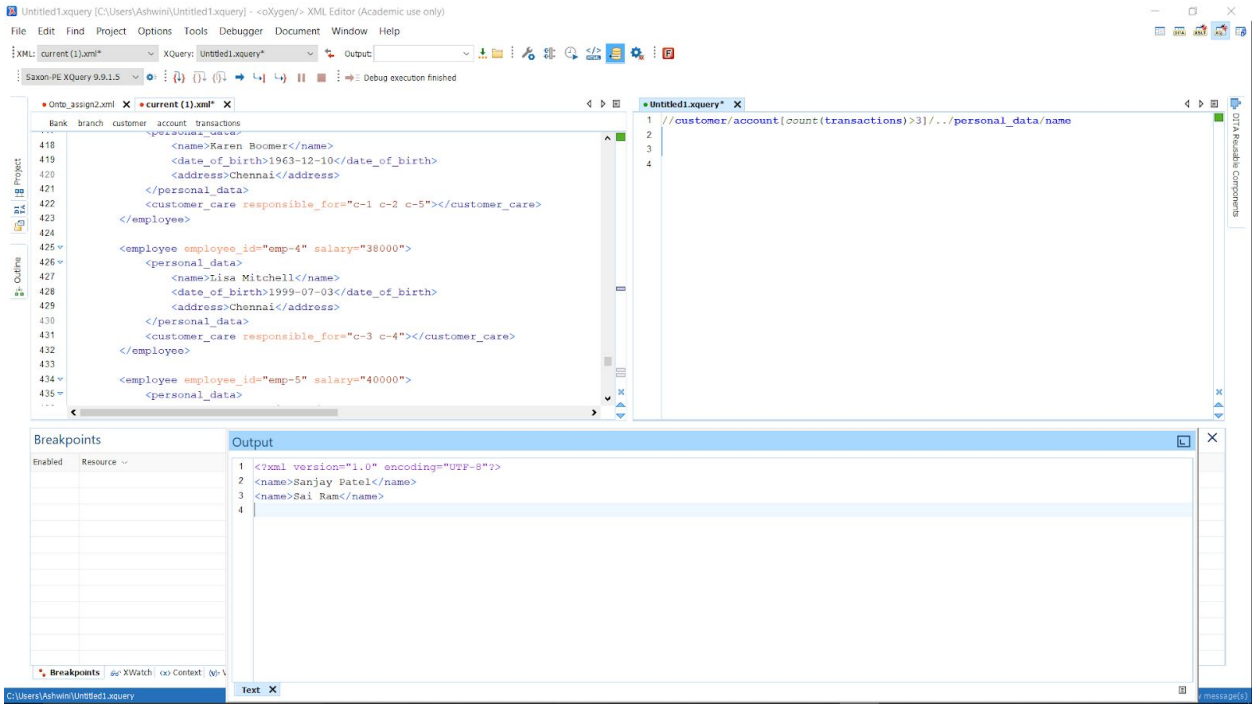
XPath2: Print the customer names who have made more than 3 transactions

//customer/account[count(transactions)>3]/../personal_data/name



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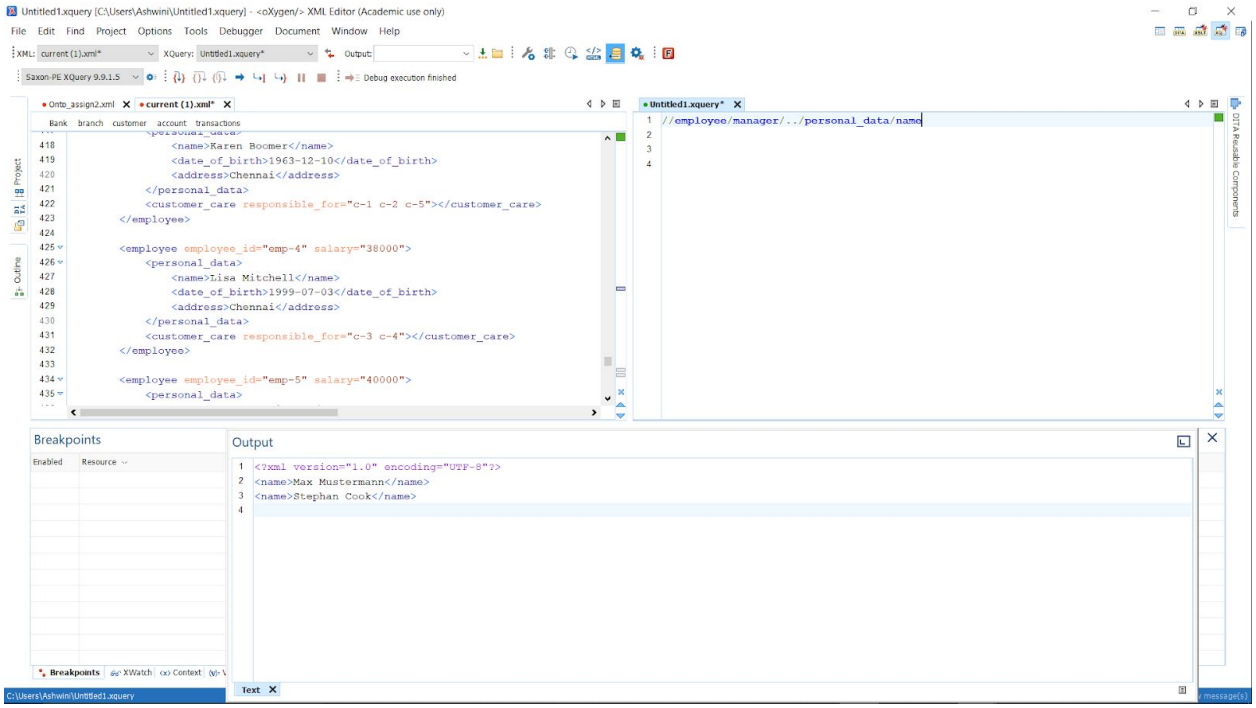
XPath3:Print the employees names who are managers

//employee/manager/../personal_data/name



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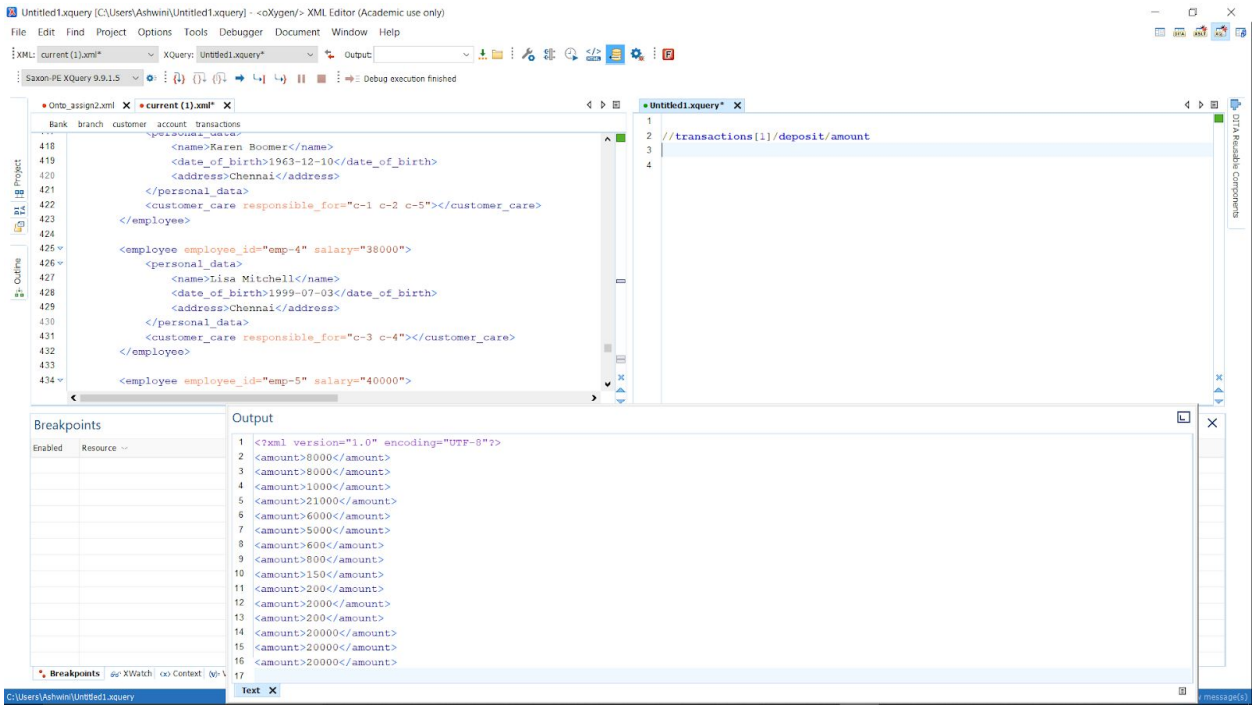
XPath4:Print each customer's first transaction's amount

//transactions[1]/deposit/amount



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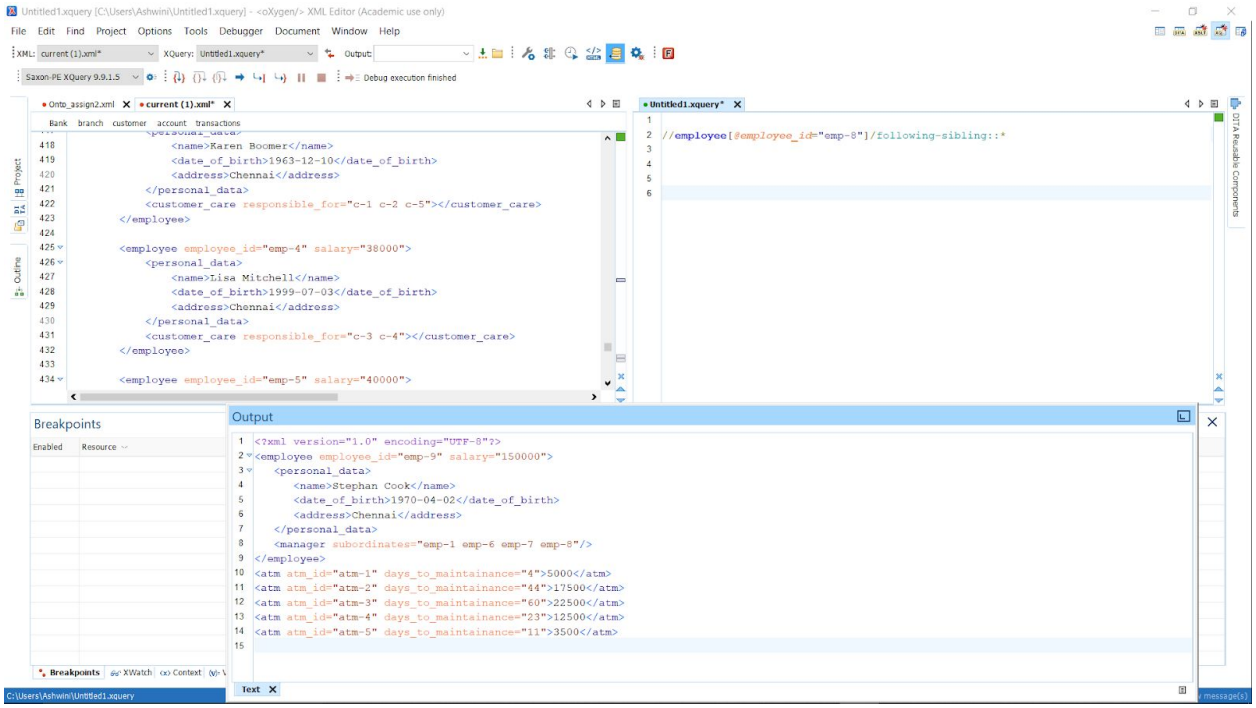
XPath5:Select all sibling nodes after the context node(employee_id="emp-8.:)

```
//employee[@employee_id="emp-8"]/following-sibling::*
```



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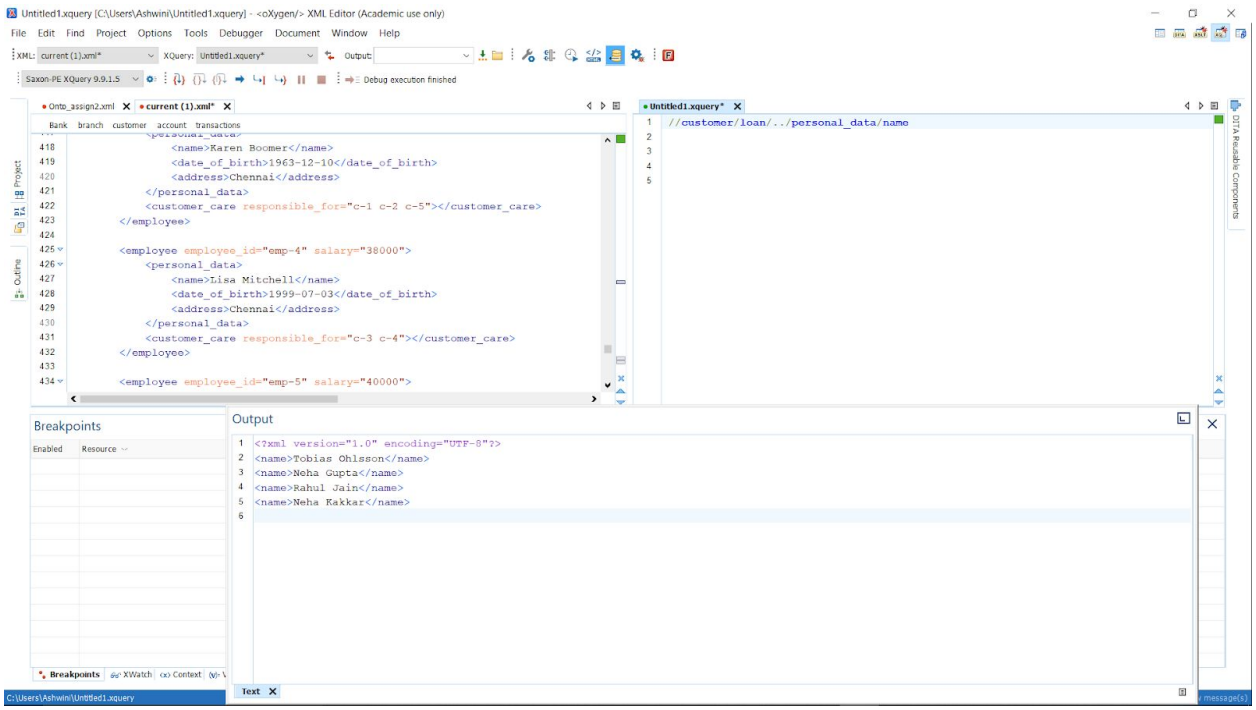
XPath6:Print customer names who took loan

//customer/loan/../personal_data/name



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XPath7:Print customer name with customer id 2

//customer[@customer_id="c-2"]/self::*/personal_data/name