IN THE NAME OF ALLAH, THE MOST GRACIOUS THE MOST MERCIFUL.

Department of CSE, IIUC.

Autumn 22

Submitted By:

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Semester: 6th

Section: 6AF

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Department of CSE, IIUC.

Submitted To:

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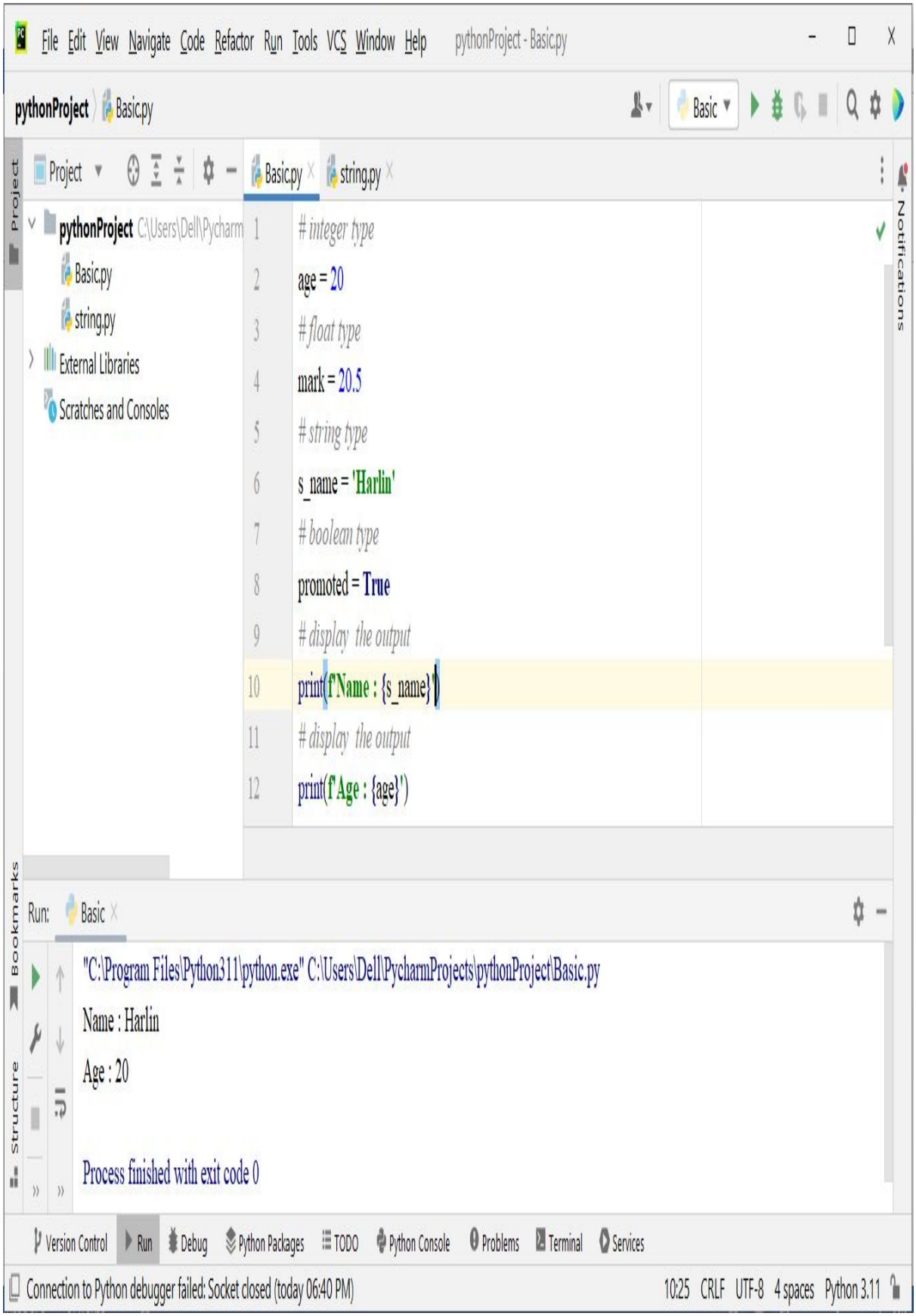
Assistant Lecturer

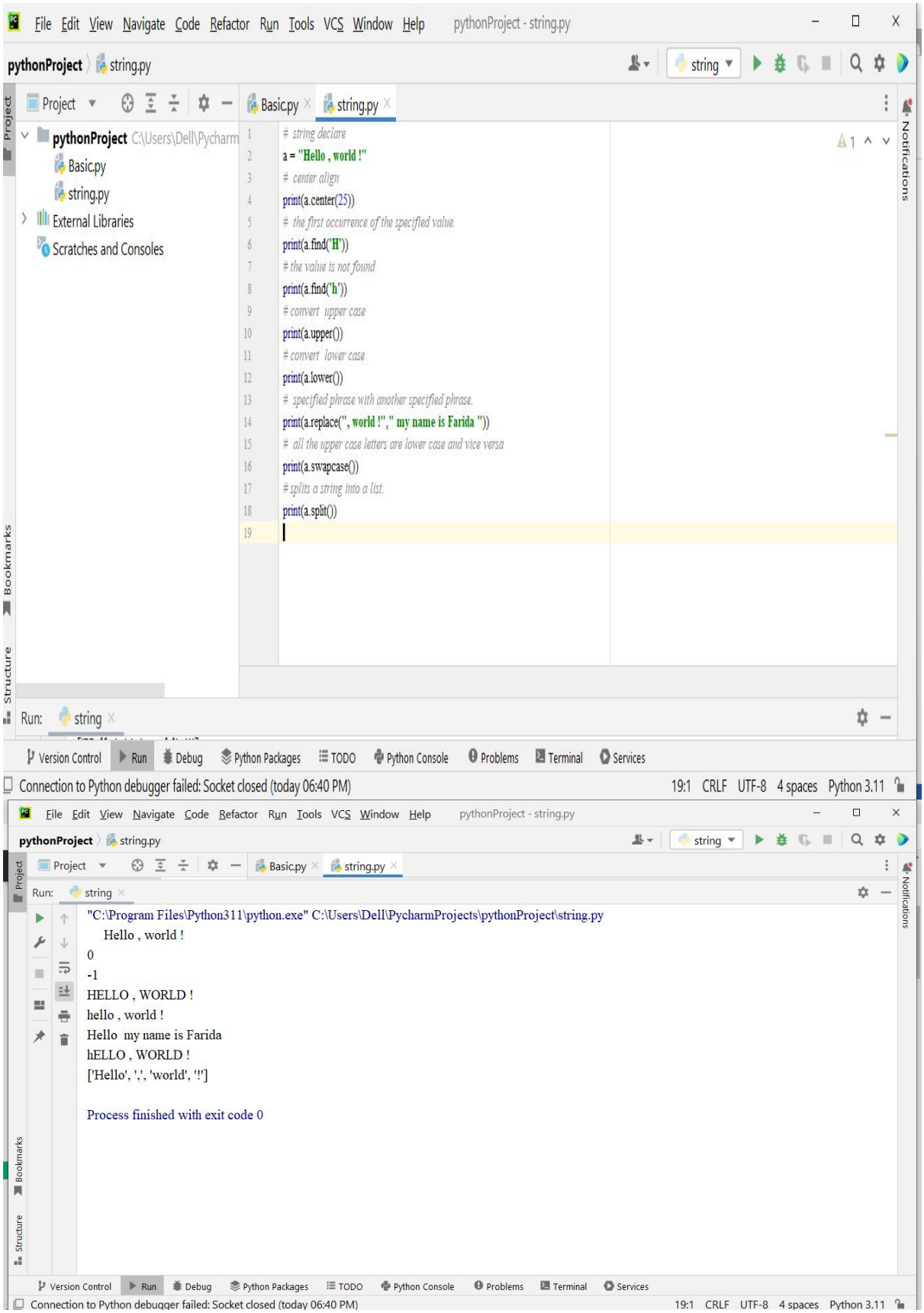
Department of CSE, IIUC.

International Islamic University Chittagong

Basic


File Edit View Navigate Code Refactor Run Tools VCS Window Help
pythonProject - Basic.py
pythonProject
Basic.py
Basic
Project
Basic.py
string.py
pythonProject C:\Users\Dell\Pycharm
Basic.py
string.py
External Libraries
Scratches and Consoles
1 # integer type
2 age = 20
3 # float type
4 mark = 20.5
5 # string type
6 s_name = 'Harlin'
7 # boolean type
8 promoted = True
9 # display the output
10 print(f'Name : {s_name}')
11 # display the output
12 print(f'Age : {age}')
Run: Basic
"C:\Program Files\Python311\python.exe" C:\Users\Dell\PycharmProjects\pythonProject\Basic.py
Name : Harlin
Age : 20
Process finished with exit code 0
Version Control
Run
Debug
Python Packages
TODO
Python Console
Problems
Terminal
Services
Connection to Python debugger failed: Socket closed (today 06:40 PM)
10:25 CRLF UTF-8 4 spaces Python 3.11
Notifications
Bookmarks
Structure

String


File Edit View Navigate Code Refactor Run Tools VCS Window Help pythonProject - string.py
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string
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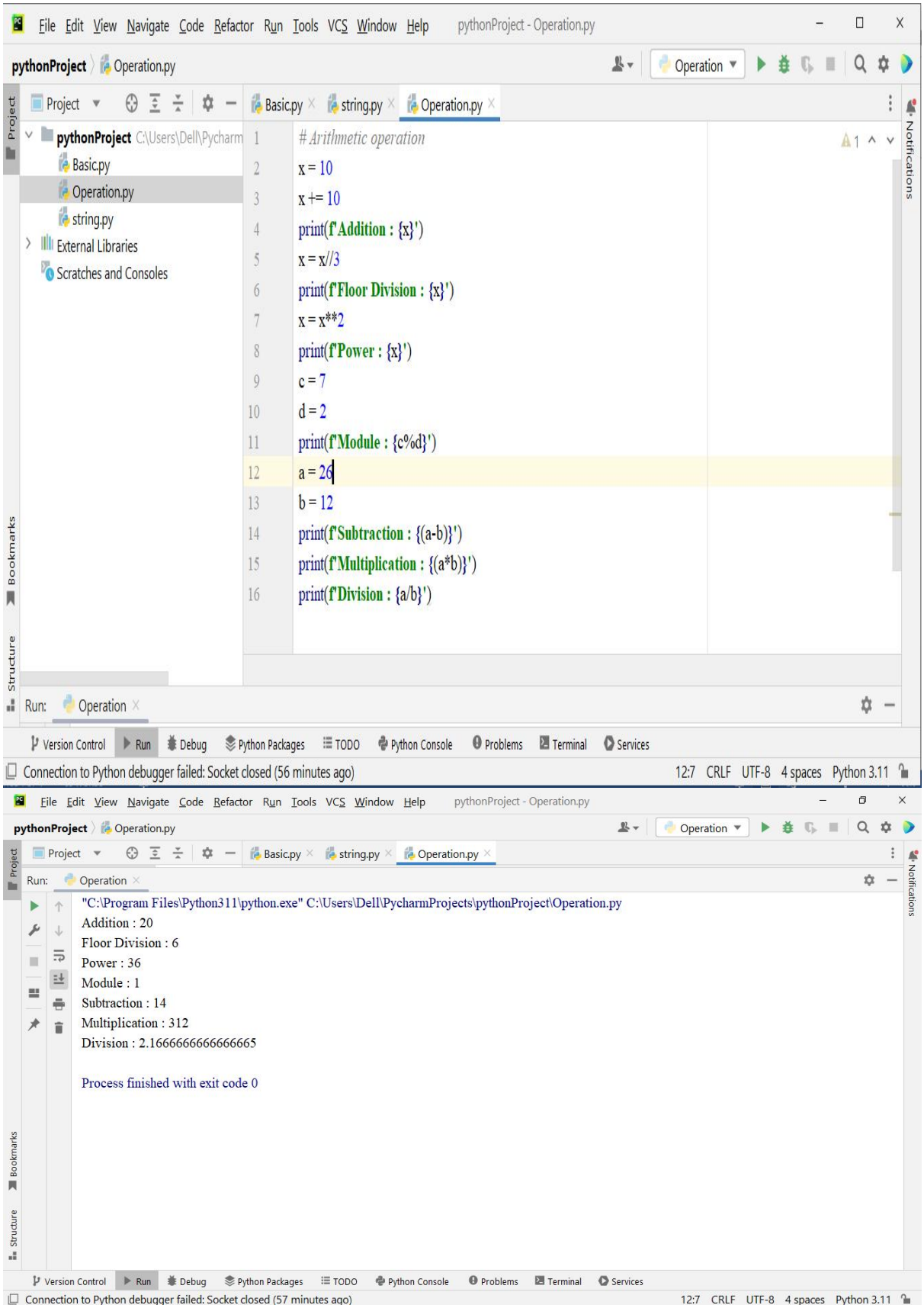
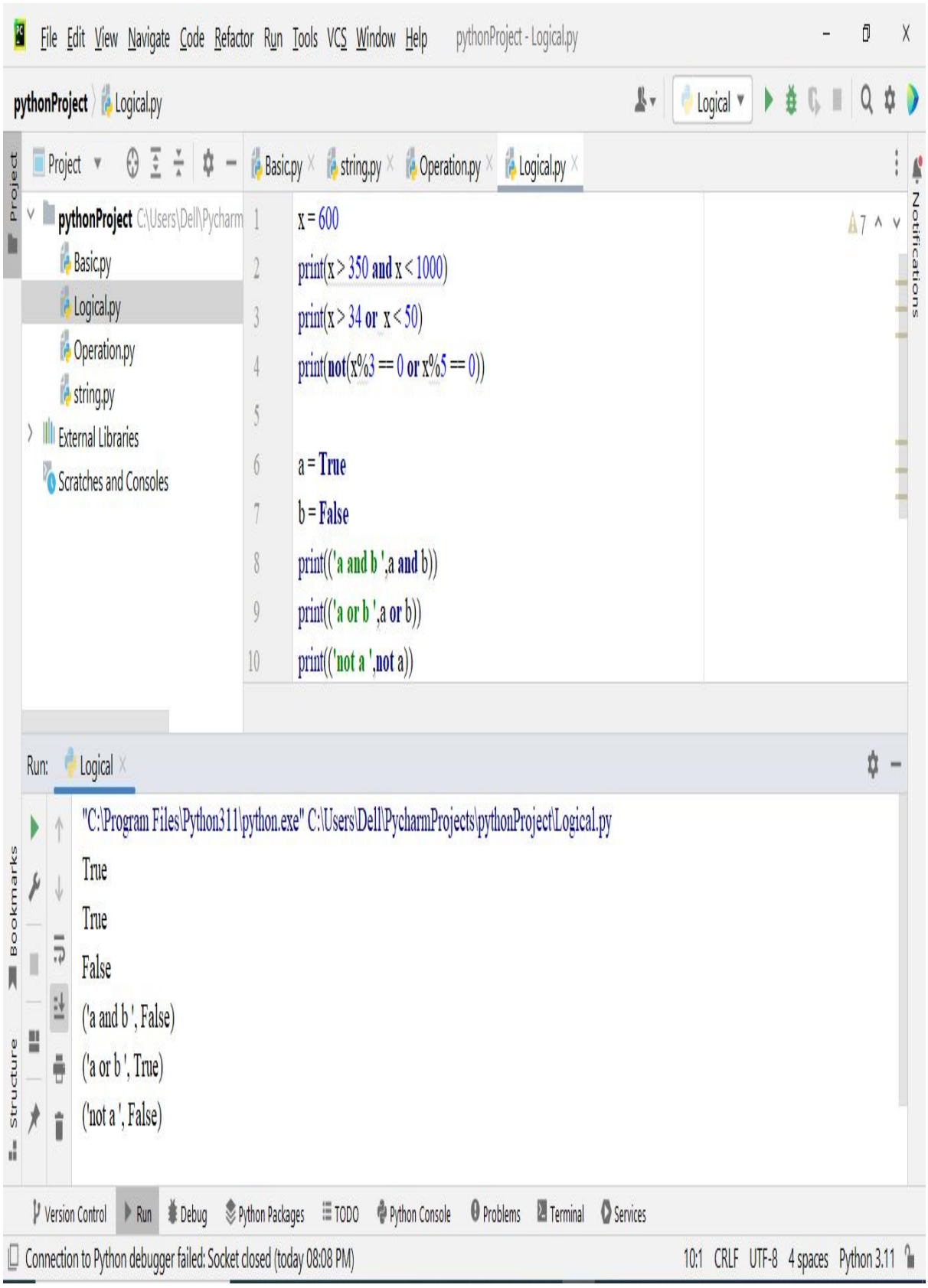
Basic.py
string.py
pythonProject C:\Users\Dell\Pycharm
Basic.py
string.py
External Libraries
Scratches and Consoles
1 # string declare
2 a = "Hello , world !"
3 # center align
4 print(a.center(25))
5 # the first occurrence of the specified value.
6 print(a.find('H'))
7 # the value is not found
8 print(a.find('h'))
9 # convert upper case
10 print(a.upper())
11 # convert lower case
12 print(a.lower())
13 # specified phrase with another specified phrase.
14 print(a.replace(", world !", " my name is Farida "))
15 # all the upper case letters are lower case and vice versa
16 print(a.swapcase())
17 # splits a string into a list.
18 print(a.split())
19
Run: string
Version Control Run Debug Python Packages TODO Python Console Problems Terminal Services
Connection to Python debugger failed: Socket closed (today 06:40 PM)
19:1 CRLF UTF-8 4 spaces Python 3.11
"C:\Program Files\Python311\python.exe" C:\Users\Dell\PycharmProjects\pythonProject\string.py
Hello , world !
0
-1
HELLO , WORLD !
hello , world !
Hello my name is Farida
hELLO , WORLD !
['Hello', ',', 'world', '!']
Process finished with exit code 0

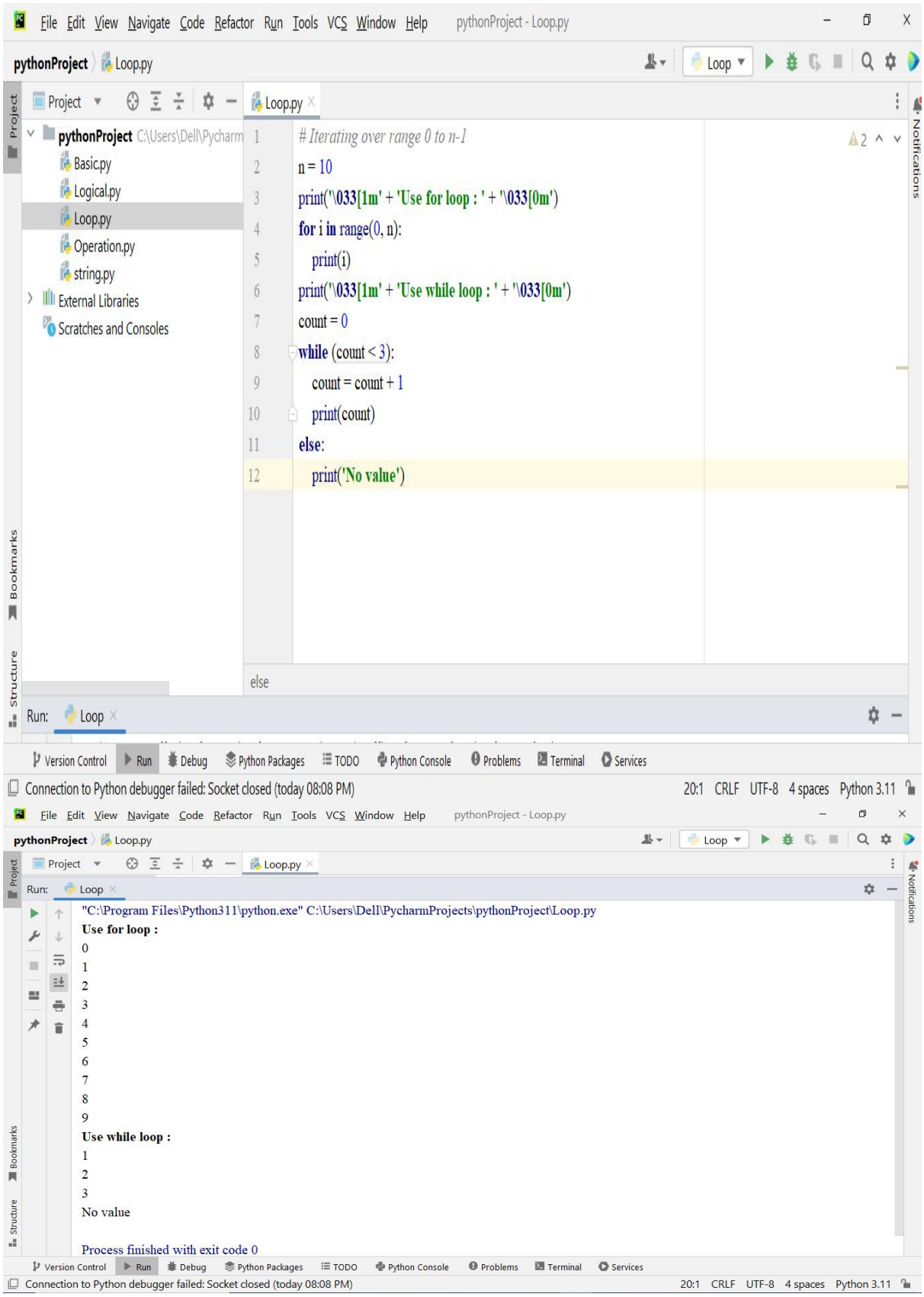
Arithmetic Operation



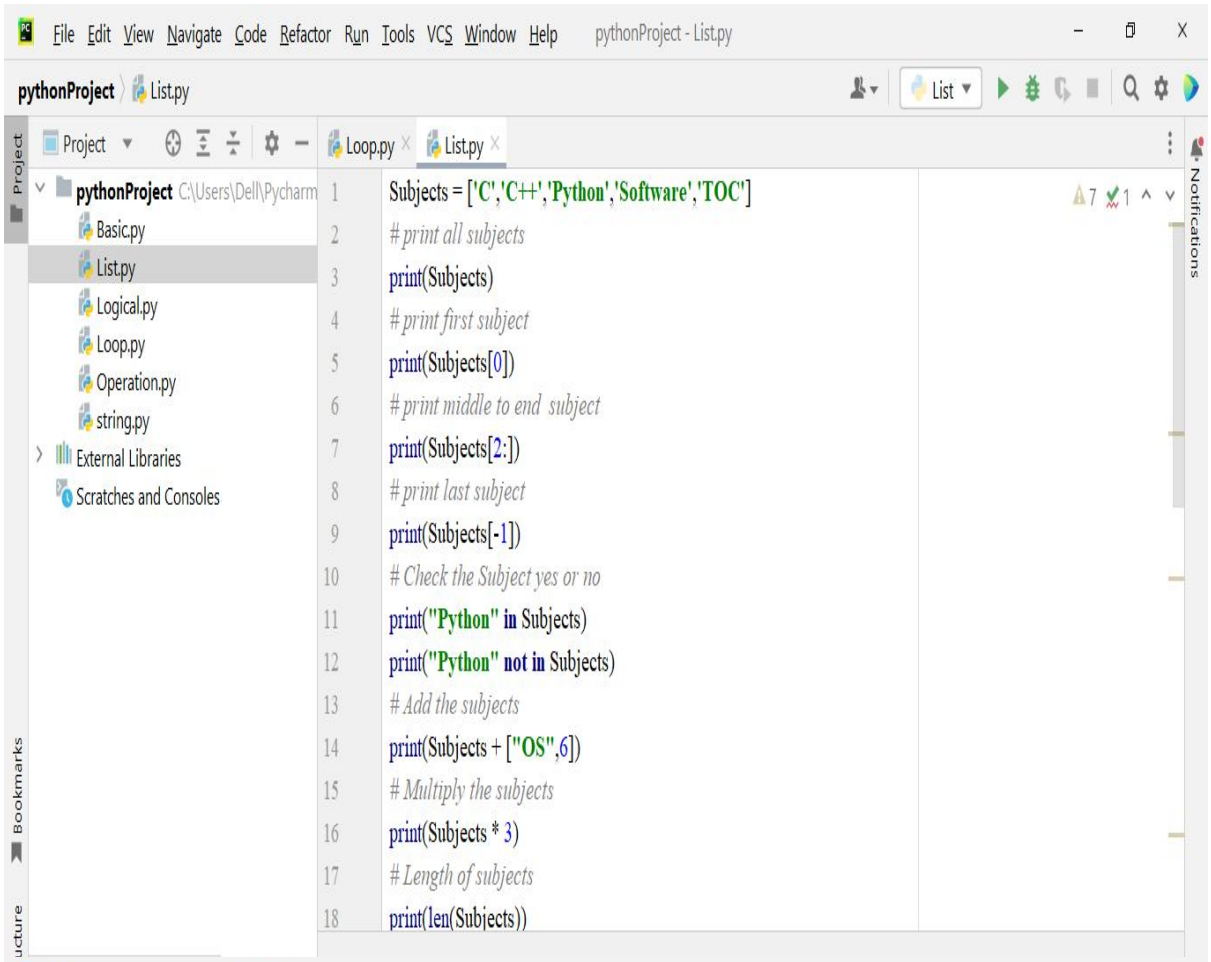
Logical Operation



Loop Statement



List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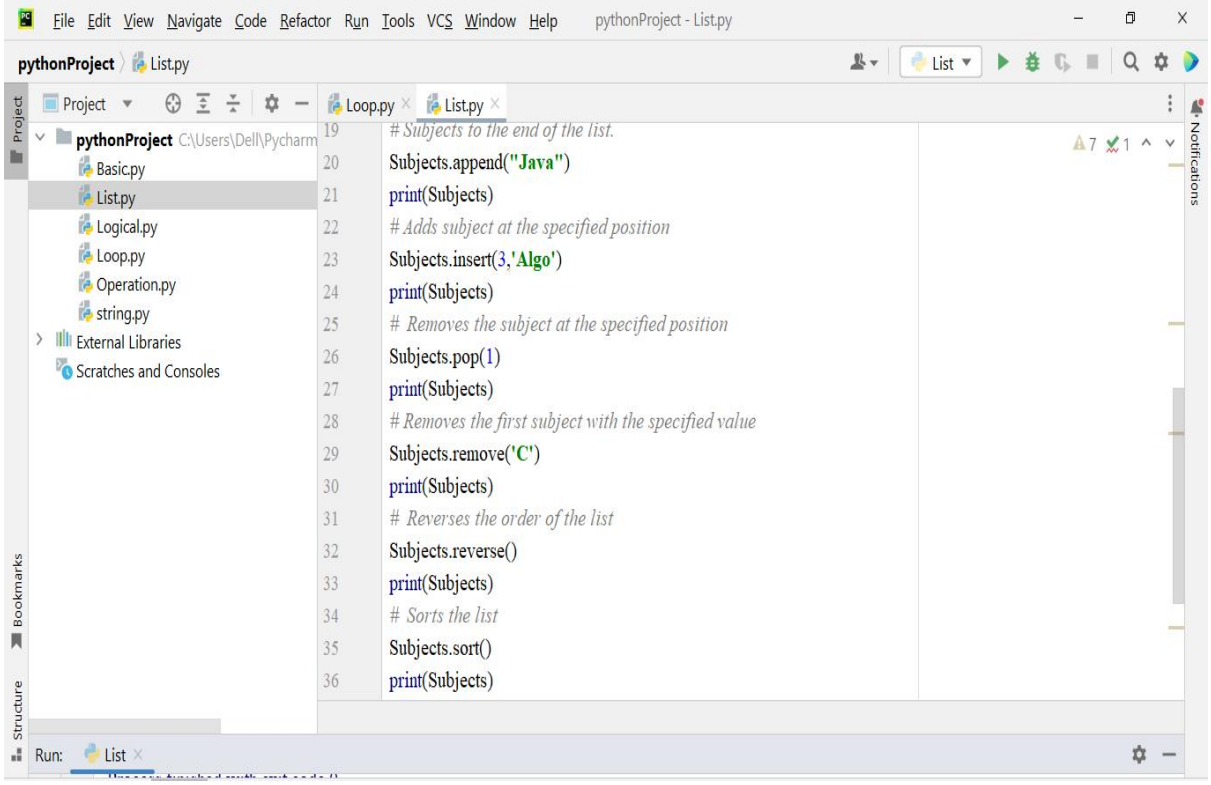
List
Project
Loop.py List.py
pythonProject C:\Users\Dell\Pycharm
Basic.py
List.py
Logical.py
Loop.py
Operation.py
string.py
External Libraries
Scratches and Consoles
1 Subjects = ['C','C++','Python','Software','TOC']
2 # print all subjects
3 print(Subjects)
4 # print first subject
5 print(Subjects[0])
6 # print middle to end subject
7 print(Subjects[2:])
8 # print last subject
9 print(Subjects[-1])
10 # Check the Subject yes or no
11 print("Python" in Subjects)
12 print("Python" not in Subjects)
13 # Add the subjects
14 print(Subjects + ["OS",6])
15 # Multiply the subjects
16 print(Subjects * 3)
17 # Length of subjects
18 print(len(Subjects))
Notifications
Bookmarks
Structure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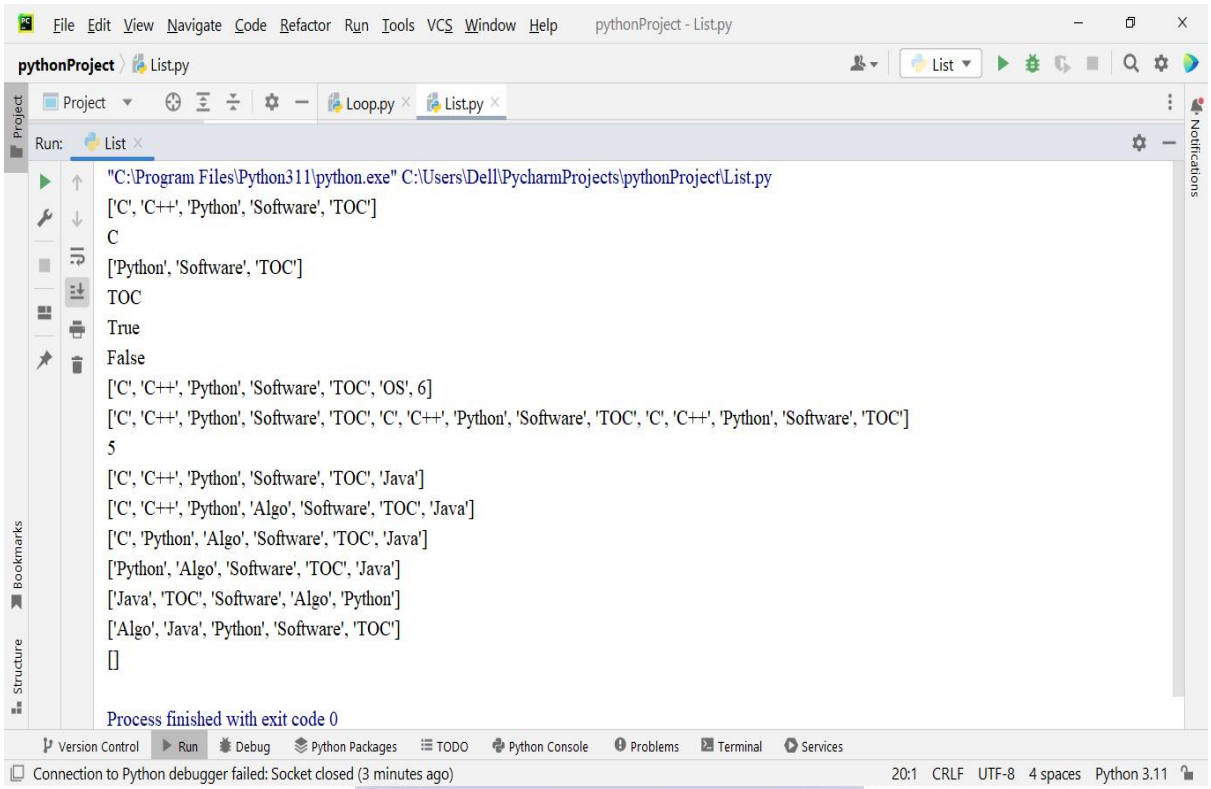
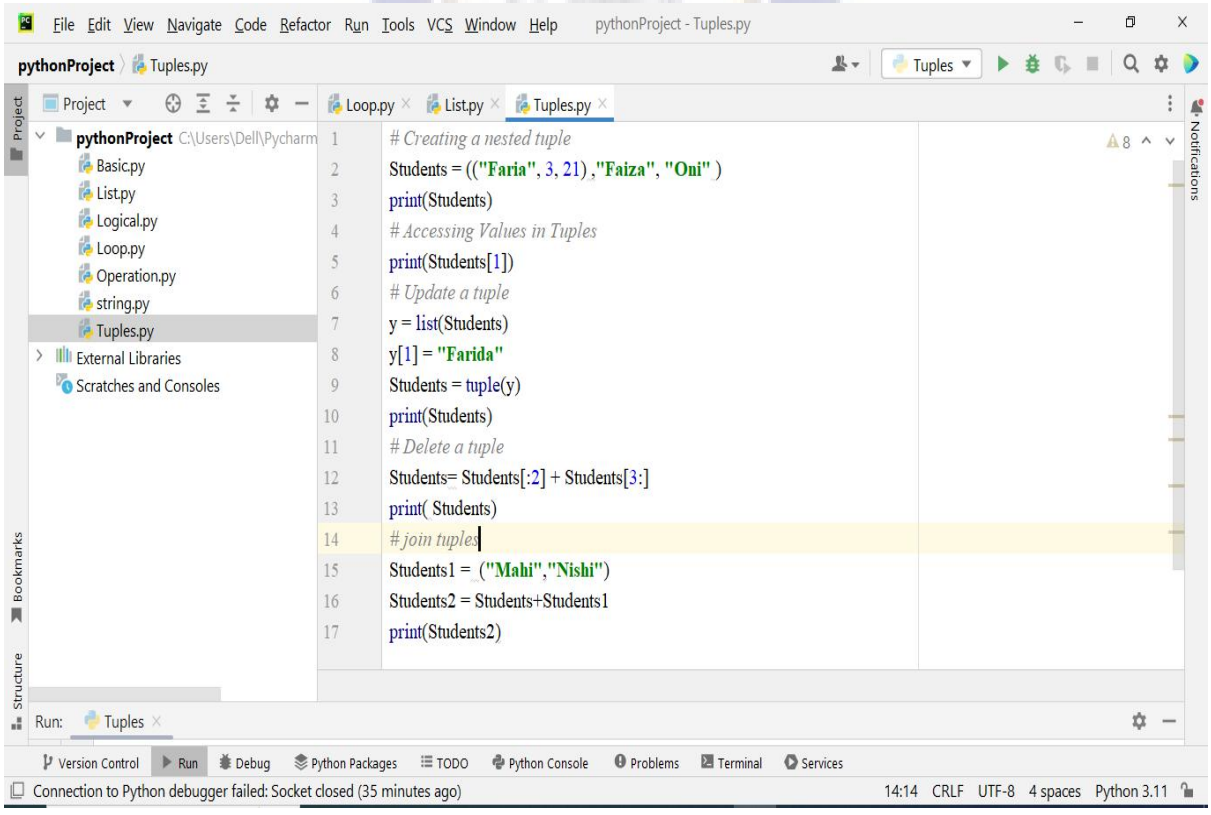
External Libraries
Scratches and Consoles
19 # Subjects to the end of the list.
20 Subjects.append("Java")
21 print(Subjects)
22 # Adds subject at the specified position
23 Subjects.insert(3,'Algo')
24 print(Subjects)
25 # Removes the subject at the specified position
26 Subjects.pop(1)
27 print(Subjects)
28 # Removes the first subject with the specified value
29 Subjects.remove('C')
30 print(Subjects)
31 # Reverses the order of the list
32 Subjects.reverse()
33 print(Subjects)
34 # Sorts the list
35 Subjects.sort()
36 print(Subjects)
Run: List
Notifications
Bookmarks
Structure


File Edit View Navigate Code Refactor Run Tools VCS Window Help pythonProject - List.py
pythonProject List.py
List
Project
Loop.py
List.py
Run: List
"C:\Program Files\Python311\python.exe" C:\Users\Dell\PycharmProjects\pythonProject\List.py
['C', 'C++', 'Python', 'Software', 'TOC']
C
['Python', 'Software', 'TOC']
TOC
True
False
['C', 'C++', 'Python', 'Software', 'TOC', 'OS', 6]
['C', 'C++', 'Python', 'Software', 'TOC', 'C', 'C++', 'Python', 'Software', 'TOC', 'C', 'C++', 'Python', 'Software', 'TOC']
5
['C', 'C++', 'Python', 'Software', 'TOC', 'Java']
['C', 'C++', 'Python', 'Algo', 'Software', 'TOC', 'Java']
['C', 'Python', 'Algo', 'Software', 'TOC', 'Java']
['Python', 'Algo', 'Software', 'TOC', 'Java']
['Java', 'TOC', 'Software', 'Algo', 'Python']
['Algo', 'Java', 'Python', 'Software', 'TOC']
[]
Process finished with exit code 0
Version Control Run Debug Python Packages TODO Python Console Problems Terminal Services
Connection to Python debugger failed: Socket closed (3 minutes ago)
20:1 CRLF UTF-8 4 spaces Python 3.11

Tuples


File Edit View Navigate Code Refactor Run Tools VCS Window Help pythonProject - Tuples.py
pythonProject Tuples.py
Tuples
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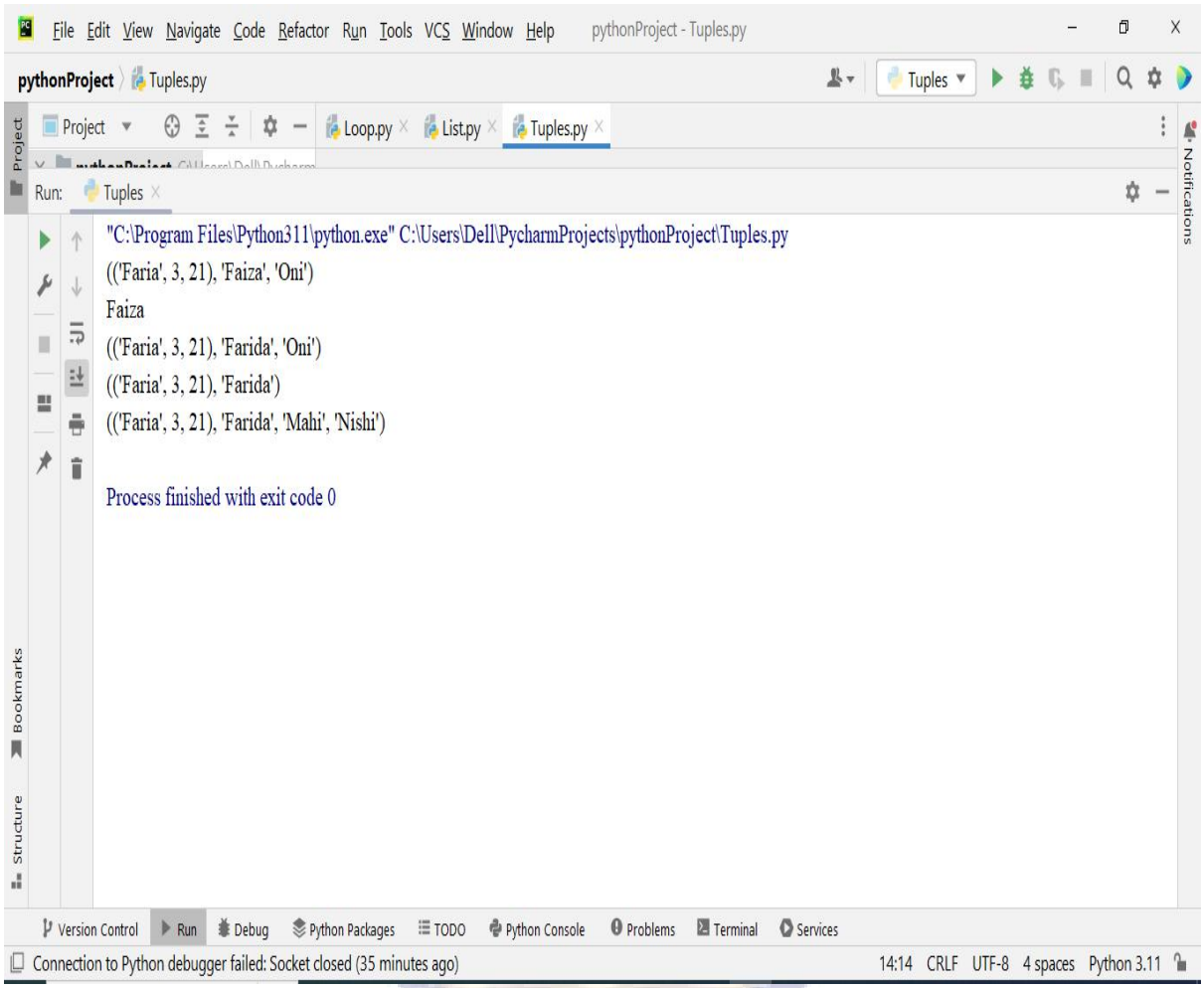
Loop.py
List.py
Tuples.py
pythonProject C:\Users\Dell\Pycharm
Basic.py
List.py
Logical.py
Loop.py
Operation.py
string.py
Tuples.py
External Libraries
Scratches and Consoles
1 # Creating a nested tuple
2 Students = (("Faria", 3, 21) ,"Faiza", "Oni")
3 print(Students)
4 # Accessing Values in Tuples
5 print(Students[1])
6 # Update a tuple
7 y = list(Students)
8 y[1] = "Farida"
9 Students = tuple(y)
10 print(Students)
11 # Delete a tuple
12 Students= Students[:2] + Students[3:]
13 print(Students)
14 # join tuples
15 Students1 = ("Mahi","Nishi")
16 Students2 = Students+Students1
17 print(Students2)
Run: Tuples
Version Control Run Debug Python Packages TODO Python Console Problems Terminal Services
Connection to Python debugger failed: Socket closed (35 minutes ago)
14:14 CRLF UTF-8 4 spaces Python 3.11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pythonProject - Tuples.py
pythonProject
Tuples.py
Tuples
Project
Loop.py
List.py
Tuples.py
Run:
Tuples
"C:\Program Files\Python311\python.exe" C:\Users\Dell\PycharmProjects\pythonProject\Tuples.py
(('Faria', 3, 21), 'Faiza', 'Oni')
Faiza
(('Faria', 3, 21), 'Farida', 'Oni')
(('Faria', 3, 21), 'Farida')
(('Faria', 3, 21), 'Farida', 'Mahi', 'Nishi')
Process finished with exit code 0
Version Control
Run
Debug
Python Packages
TODO
Python Console
Problems
Terminal
Services
Connection to Python debugger failed: Socket closed (35 minutes ago)
14:14
CRLF
UTF-8
4 spaces
Python 3.11