

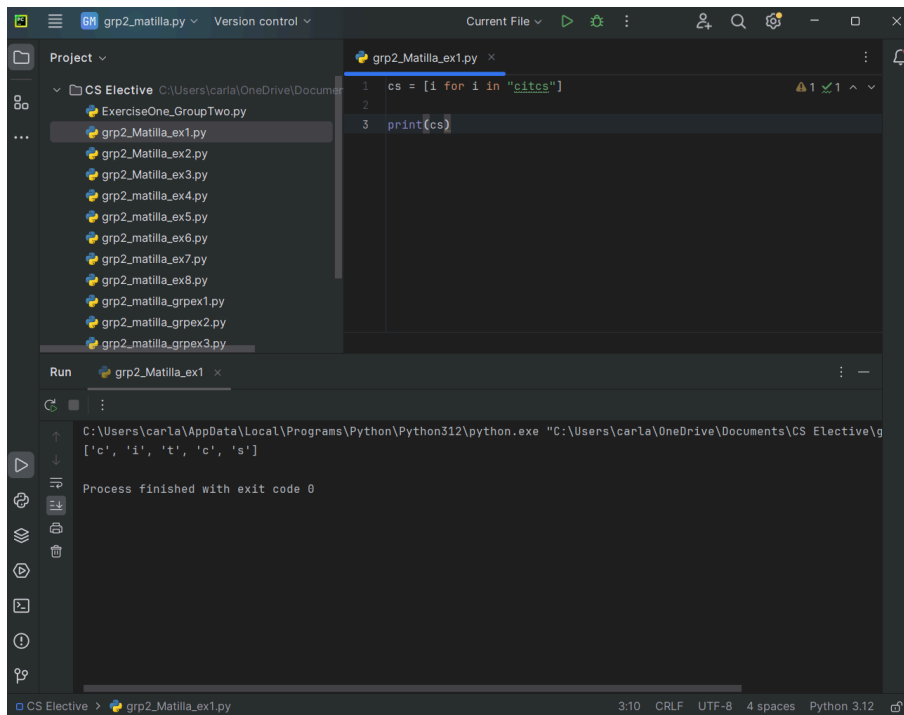
# CS PROFESSIONAL ELECTIVE 2 | **FINALS: EXERCISES #1**

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**Lists Exercise:** What is the output for numbers 1 and 2, and what is the codes for numbers 3 and 4?

- 1. `[i for i in "citcs"]`
- 2. `[ i for i in range(1, 11)]`
- 3. `[2, 4, 6, 8, 10]`
- 4. `[1, 3, 5, 7, 9]`

1. The output for `[i for i in "citcs"]` = `['c', 'i', 't', 'c', 's']`.



The screenshot shows a Python IDE with a project named 'CS Elective'. The file explorer on the left lists several Python files, including 'grp2\_Matilla\_ex1.py'. The main editor window displays the code for 'grp2\_Matilla\_ex1.py':

```
1 cs = [i for i in "citcs"]
2
3 print(cs)
```

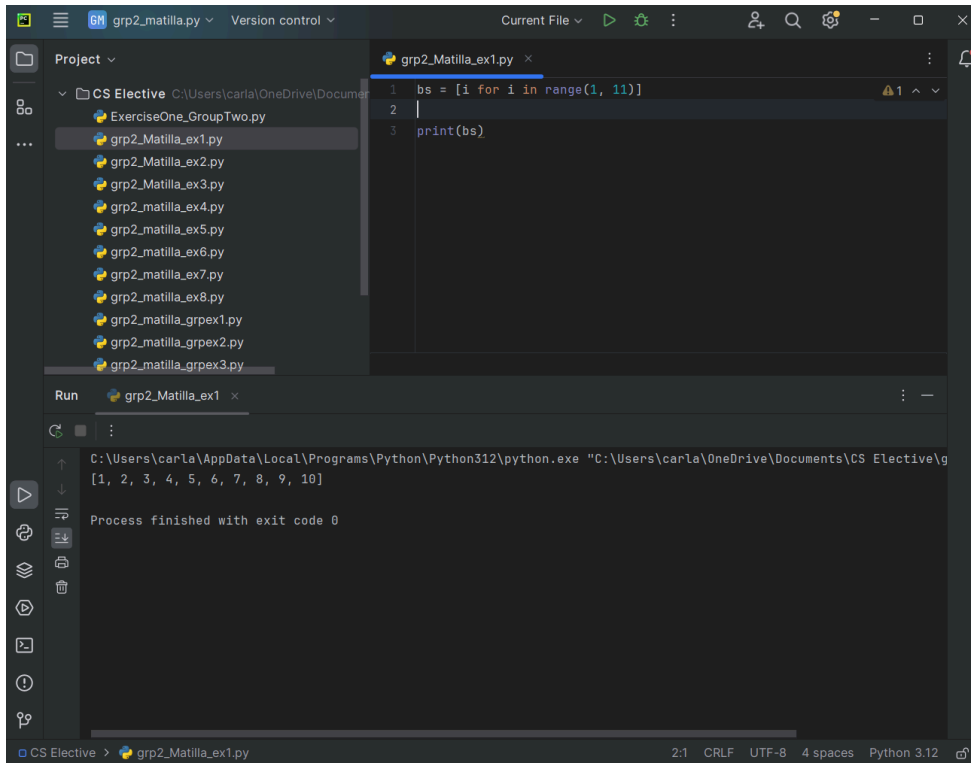
The 'Run' panel at the bottom shows the execution output:

```
C:\Users\carla\AppData\Local\Programs\Python\Python312\python.exe "C:\Users\carla\OneDrive\Documents\CS Elective\g
['c', 'i', 't', 'c', 's']

Process finished with exit code 0
```

The status bar at the bottom indicates the file is 'grp2\_Matilla\_ex1.py', using 'UTF-8' encoding, with '4 spaces' for indentation, and the Python version is '3.12'.

2. The output for `[i for i in range(1, 11)]` = `[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]`.



The screenshot shows a Python IDE with a project named 'CS Elective'. The file explorer on the left lists several Python files, including 'grp2\_Matilla\_ex1.py'. The main editor window displays the code for 'grp2\_Matilla\_ex1.py':

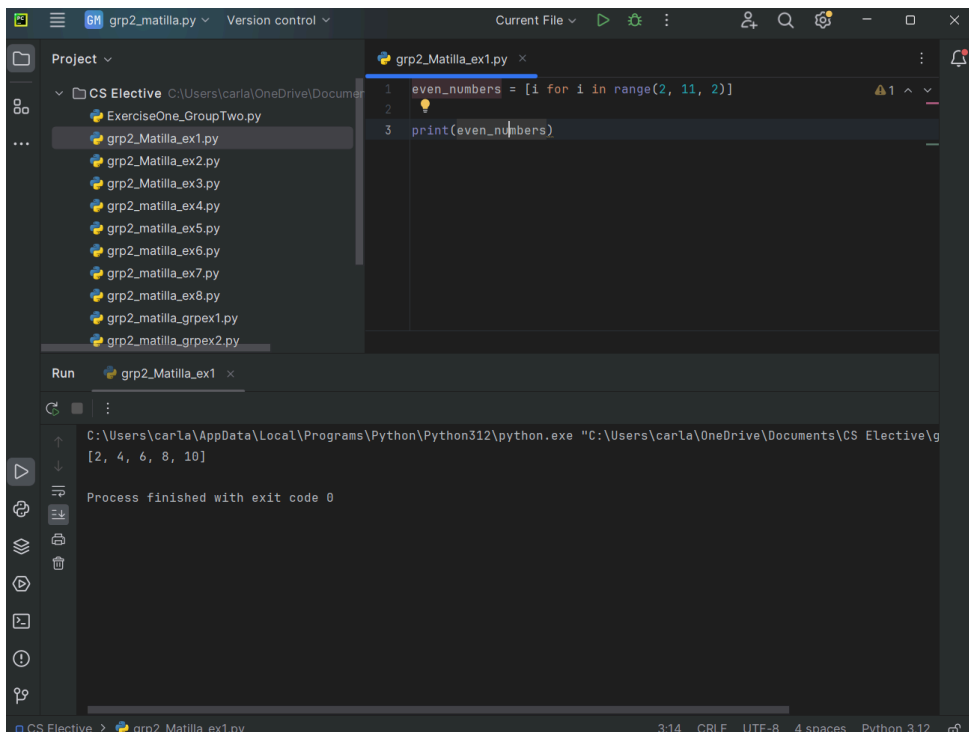
```
1 bs = [i for i in range(1, 11)]
2
3 print(bs)
```

The Run window at the bottom shows the execution output:

```
C:\Users\carla\AppData\Local\Programs\Python\Python312\python.exe "C:\Users\carla\OneDrive\Documents\CS Elective\grp2_Matilla_ex1.py"
[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
Process finished with exit code 0
```

The status bar at the bottom indicates the file is 'grp2\_Matilla\_ex1.py' with a 2:1 line number, CRLF line endings, UTF-8 encoding, 4 spaces for indentation, and Python 3.12.

3. `even_numbers = [i for i in range(2, 11, 2)]`



The screenshot shows the same Python IDE with the file 'grp2\_Matilla\_ex1.py' open. The code in the editor is:

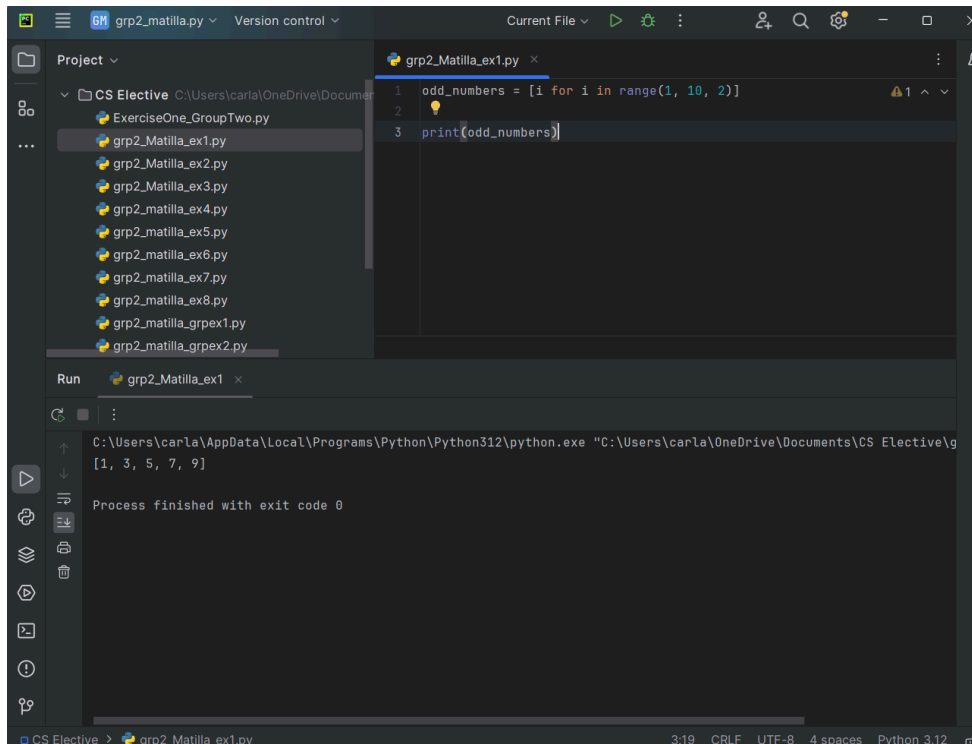
```
1 even_numbers = [i for i in range(2, 11, 2)]
2
3 print(even_numbers)
```

The Run window shows the output:

```
C:\Users\carla\AppData\Local\Programs\Python\Python312\python.exe "C:\Users\carla\OneDrive\Documents\CS Elective\grp2_Matilla_ex1.py"
[2, 4, 6, 8, 10]
Process finished with exit code 0
```

The status bar at the bottom indicates the file is 'grp2\_Matilla\_ex1.py' with a 3:14 line number, CRLF line endings, UTF-8 encoding, 4 spaces for indentation, and Python 3.12.

#### 4. `odd_numbers = [i for i in range(1, 10, 2)]`



The screenshot shows a Python IDE with a project named "CS Elective". The file explorer on the left lists several Python files, including "grp2\_Matilla\_ex1.py". The main editor window displays the code for "grp2\_Matilla\_ex1.py":

```
1 odd_numbers = [i for i in range(1, 10, 2)]
2
3 print(odd_numbers)
```

The code is executed, and the output is shown in the Run console:

```
C:\Users\carla\AppData\Local\Programs\Python\Python312\python.exe "C:\Users\carla\OneDrive\Documents\CS Elective\grp2_Matilla_ex1.py"
[1, 3, 5, 7, 9]
Process finished with exit code 0
```

The status bar at the bottom indicates the file is "grp2\_Matilla\_ex1.py", 3:19, CRLF, UTF-8, 4 spaces, Python 3.12.