

## EXPERIMENT-6

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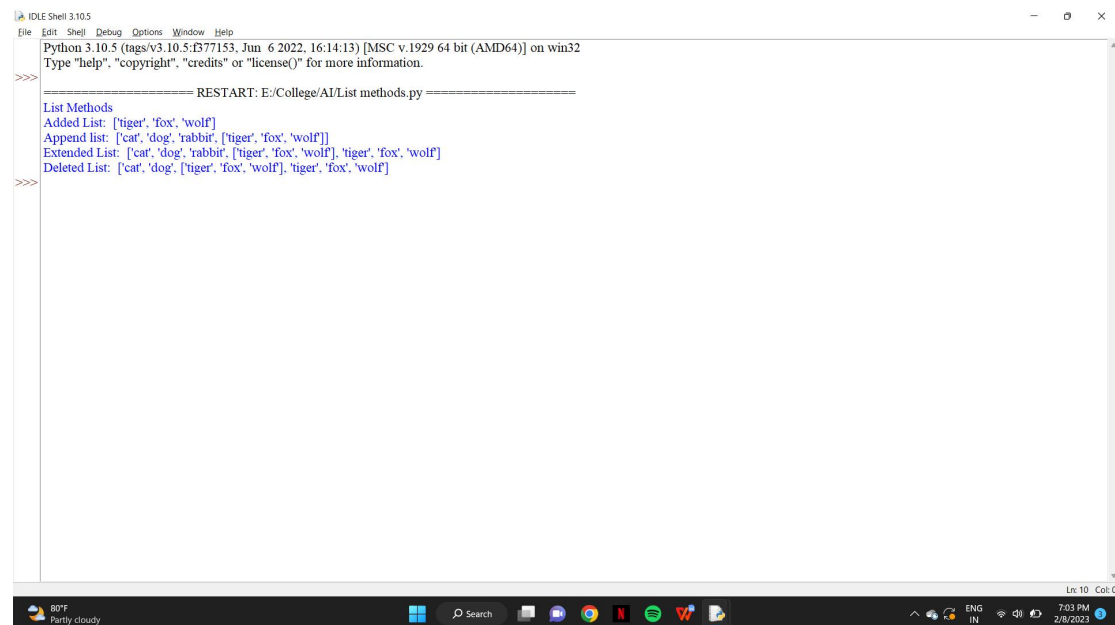
Course: CSA1789 Artificial Intelligence

Q) Write a python program to implement List methods (Add, Append, Extend & Delete).

Program:

```
print("List Methods")
animals = ['cat', 'dog', 'rabbit']
animals1 = ['tiger', 'fox']
animals1.append("wolf")
print("Added List: ",animals1)
animals.append(animals1)
print("Append list: ", animals)
animals.extend(animals1)
print("Extended List: ",animals)
animals.remove("rabbit")
print("Deleted List: ",animals)
```

Output:

A screenshot of a Python IDE window titled 'IDLE Shell 3.10.5'. The window shows the execution of a Python script. The output is as follows:

```
>>>
List Methods
Added List: ['tiger', 'fox', 'wolf']
Append list: ['cat', 'dog', 'rabbit', ['tiger', 'fox', 'wolf']]
Extended List: ['cat', 'dog', 'rabbit', ['tiger', 'fox', 'wolf'], 'tiger', 'fox', 'wolf']
Deleted List: ['cat', 'dog', ['tiger', 'fox', 'wolf'], 'tiger', 'fox', 'wolf']
>>>
```

The IDE window also shows the file path 'E:/College/AI/List methods.py' and the Python version 'Python 3.10.5 (tags/v3.10.5:f377153, Jun 6 2022, 16:14:13) [MSC v.1929 64 bit (AMD64)] on win32'. The taskbar at the bottom shows the system clock as 7:03 PM on 2/8/2023.