

EXPERIMENT-7

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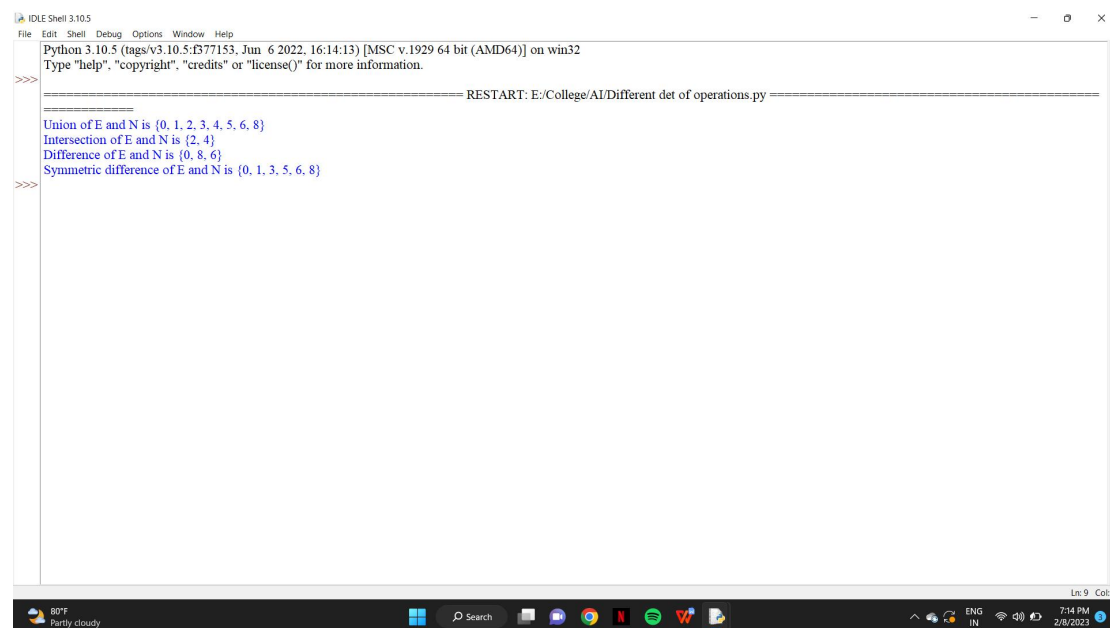
Course: CSA1789 Artificial Intelligence

Q) Write a python program to Illustrate Different Set Operations?

Program:

```
E = {0, 2, 4, 6, 8};  
N = {1, 2, 3, 4, 5};  
print("Union of E and N is",E | N)  
print("Intersection of E and N is",E & N)  
print("Difference of E and N is",E - N)  
print("Symmetric difference of E and N is",E ^ N)
```

Output:



The screenshot shows a Python IDE window titled 'IDLE Shell 3.10.5'. The shell displays the following output for the provided program:

```
Python 3.10.5 (tags/v3.10.5:1377153, Jun 6 2022, 16:14:13) [MSC v.1929 64 bit (AMD64)] on win32  
Type "help", "copyright", "credits" or "license()" for more information.  
  
===== RESTART: E:/College/AI/Different det of operations.py =====  
  
Union of E and N is {0, 1, 2, 3, 4, 5, 6, 8}  
Intersection of E and N is {2, 4}  
Difference of E and N is {0, 8, 6}  
Symmetric difference of E and N is {0, 1, 3, 5, 6, 8}
```

The taskbar at the bottom shows the system clock as 7:14 PM on 2/6/2023, with a temperature of 80°F and 'Partly cloudy' weather.