

Artificial Intelligence

Task 3: Write a Python Program to Illustrate Different Set Operations.

Code:

```
E = {0, 2, 4, 6, 8}
N = {1, 2, 3, 4, 5}

unionresult = E.union(N)
intersectionresult = E.intersection(N)
differenceresult = E.difference(N)
symmetricdifferenceresult = E.symmetric_difference(N)

print(f"Union of E and N is {unionresult}")
print(f"Intersection of E and N is {intersectionresult}")
print(f"Difference of E and N is {differenceresult}")
print(f"Symmetric difference of E and N is {symmetricdifferenceresult}")
```

Output:

```
= RESTART: C:\Users\ranap\AppData\Local\Programs\Python\Python311\projects.
PY
Input: [12, -7, 5, 64, -14] Output: [12, 5, 64]
Input: [12, 14, -95, 3] Output: [12, 14, 3]
>>>
```