EXPERIMENT-13

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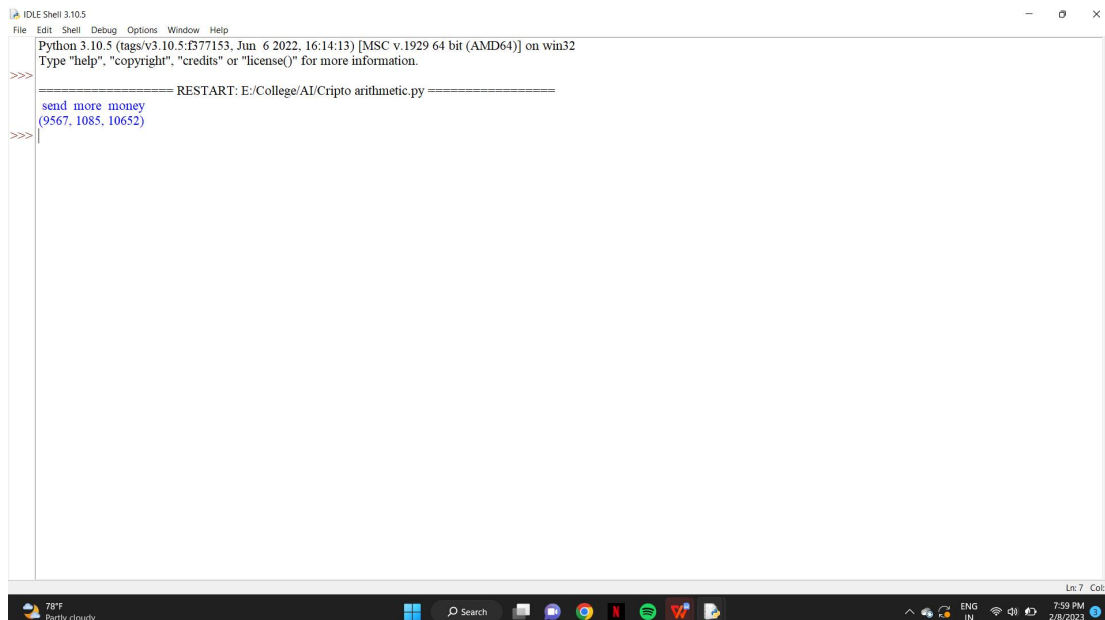Course: CSA1789 Artificial Intelligence

Q) Write the python program for Cript-Arithmetic problem

PROGRAM:

```python
import itertools
def solve2():
    letters = ('s', 'e', 'n', 'd', 'm', 'o', 'r', 'y')
    digits = range(10)
    for perm in itertools.permutations(digits, len(letters)):
        sol = dict(zip(letters, perm))
        if sol['s'] == 0 or sol['m'] == 0:
            continue
        send = 1000 * sol['s'] + 100 * sol['e'] + 10 * sol['n'] + sol['d']
        more = 1000 * sol['m'] + 100 * sol['o'] + 10 * sol['r'] + sol['e']
        money = 10000 * sol['m'] + 1000 * sol['o'] + 100 * sol['n'] + 10 * sol['e'] + sol['y']
        if send + more == money:
            print(" send"," more"," money")
            return send, more, money
print(solve2())
```

OUTPUT: