

AIES Lab 3

```
def solutions():
    all_solutions = list()
    for s in range(9, -1, -1):
        for e in range(9, -1, -1):
            for n in range(9, -1, -1):
                for d in range(9, -1, -1):
                    for m in range(9, 0, -1):
                        for o in range(9, -1, -1):
                            for r in range(9, -1, -1):
                                for y in range(9, -1, -1):
                                    if len(set([s, e, n, d, m, o, r,
y])) == 8:
                                        send = 1000 * s + 100 * e + 10
                                        * n + d
                                        more = 1000 * m + 100 * o + 10
                                        * r + e
                                        money = 10000 * m + 1000 * o +
100 * n + 10 * e + y
                                        if send + more == money:
                                            all_solutions.append((send, more, money))
                                return all_solutions
print(solutions())
[(9567, 1085, 10652)]
```