```
1 #
       PE29 Vasu Kalariya
       AI lab Assi 3
 2 #
 3
 4 def solutions():
       letters = ('s', 'e', 'n', 'd', 'm', 'o', 'r', 'y')
 5
 6
       all solutions = list()
 7
       for s in range(9, -1, -1):
 8
           for e in range(9, -1, -1):
 9
               for n in range(9, -1, -1):
10
                   for d in range(9, -1, -1):
                       for m in range(9, 0, -1):
11
                            for o in range(9, -1, -1):
12
                                for r in range(9, -1, -1):
13
14
                                    for y in range(9, -1, -1):
15
                                        if len(set([s, e, n, d, m, o, r, y])) == 8:
16
                                            send = 1000 * s + 100 * e + 10 * n + d
17
                                            more = 1000 * m + 100 * o + 10 * r + e
                                            money = 10000 * m + 1000 * o + 100 * n + 10 *
18
   e + y
19
20
                                            if send + more == money:
21
                                                print(list([s, e, n, d, m, o, r, y]))
22
                                                all_solutions.append((send, more, money))
23
       return all solutions
24
25 print(solutions())
26
27
28
29 """
30 Output
31
32 PS C:\Users\kalar> & python "f:/T9/AI/Lab 3/PE29 VasuKalariya AI LAB Assi 3.py"
33 [9, 5, 6, 7, 1, 0, 8, 2]
34 [(9567, 1085, 10652)]
35 PS C:\Users\kalar>
36
37 """
```

localhost:4649/?mode=python 1/1