**Exp: 4 Write the Python Program for Cript-Arithmetic Problem**

**Input:**

import itertools

def solve\_cryptarithmetic():

    letters = 'SENDMORY'

    for perm in itertools.permutations(range(10), len(letters)):

        s, e, n, d, m, o, r, y = perm

        if s == 0 or m == 0:

            continue

        send = s\*1000 + e\*100 + n\*10 + d

        more = m\*1000 + o\*100 + r\*10 + e

        money = m\*10000 + o\*1000 + n\*100 + e\*10 + y

        if send + more == money:

            print("Solution Found:")

            print(f"SEND  = {send}")

            print(f"MORE  = {more}")

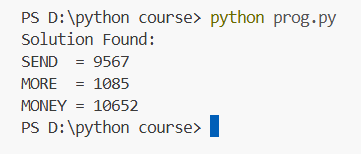
            print(f"MONEY = {money}")

            return

    print("No solution found.")

solve\_cryptarithmetic()

**output:**

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