**Case Study 1**

* No requirement to buy shares from either mutual fund
* Optimised result thus excludes investment in fund Z
* Majority of shares in Share C
* Food Sector maxed out on allowed share %
* Max allowed in fund E allotted

Scope: Calculate the optimised amount of money to invest across the available investments present in the provided portfolio package

Context: Maximising return on £90,000 to be invested across a multiple business sectors and mutual funds.

Requirements: £90k, Shares in a given sector cannot be more than 50% of total invested shares, Shares with the larger return of a sector are equal to or less than 80% total shares in that sector, amount in manufacturing company B equal to or less than 10% of whole share amount, Amount in the mutual funds equal to or less than 25% of the amount invested in the manufacturing sector.

1. Investment Account (G) = £90,000
2. Manufacturing Sector (Share A + Share B) <= 50% G
3. Share C == 0.8(Share C + Share D), Share B == 0.8(Share B + Share A)
4. Share B <= 10% G
5. Fund E + Fund Z <= 0.25(Share A + Share B)

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